Visual Studio (IVE) EXPERT SOLUTIONS FOR .NET DEVELOPERS







CONNECT WITH VISUAL STUDIO LIVE!





TOPICS INCLUDE:



ALM / DevOps







MANNE



Practices











and Analytics

Native Client



Web Client



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ROCK YOUR CODE TOUR + 2017

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A MESSAGE FROM THE CONFERENCE CO-CHAIRS

ANAHEIM

IT'S LIKE ROCK 'N ROLL FANTASY CAMP. BUT FOR CODE!

Visual Studio (IVE)

Software development changes almost every day, with amazing new tools and technologies in the cloud, on mobile devices, the Web at large, and on operating systems from Windows to macOS and Linux. While rapid change can feel threatening, we think there's never been a better time to be a software developer—but to be a "rock star" at your craft, you'll need to have a good educational source that builds your skills.

We're Andrew Brust, Rockford Lhotka, and Brian Randell, and as Conference Co-Chairs for Visual Studio Live! Anaheim, we'd like to personally invite you to do that by joining us this October at the Hyatt Regency Orange County. We want to help you master what's new, even as it rushes out of the firehose!

We've put together an amazing lineup of sessions on: Web Server (including ASP.NET Core); Web Client (HTML5, JavaScript, Angular, and the like); Native Client (mobile and desktop); ALM and DevOps, Database and Analytics; Azure/Cloud Computing; Software Practices; and more. We've also got coverage on technologies like Microsoft Visual Studio 2017 / full .NET and .NET Core; Angular; TypeScript; Xamarin; Cosmos DB; Machine Learning; WebAssembly; Microsoft Teams; and XAML. You'll find new sessions on Microsoft Teams, ways to be better at agile with talks on Scrum and lessons learned, as well as sessions on application UX and design.

Then there's our workshop content, covering Distributed Cross-Platform Application Architecture; ASP.NET DevOps with Visual Studio Team Services or Team Foundation Server; and Developer Deep Dive into SQL Server 2016. These sessions and workshops drill deep into the new subjects you need to master and the fundamentals that are always important.

You've got to keep up with the changes. At such a pivotal time, Internet-based content isn't enough. Find a way to get to Visual Studio Live! Anaheim and get live content and interaction with independent experts. Your career deserves nothing less.

WE HOPE TO SEE YOU THERE! ROCK OUT!

VISUAL STUDIO LIVE! CONFERENCE CO-CHAIRS



Andrew Brust Senior Director, Market Strategy and Intelligence, Datameer

ROCK



Rockford Lhotka CTO, Magenic



Brian A. Randell Partner, MCW Technologies



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TEN

REASONS TO ATTEND Visual Studio Live! Anaheim

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LET'S GO CODIN' NOW!

California is home to the iconic Beach Boys and the next stop on our 2017 "Code Tour". Surf the hottest topics with us in Anaheim This October!



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1993. We take pride in the fact that the Developer Community has come to us for the best in developer-focused education and training for over 20 years.

B REGISTER TODAY TO CALIFORNIA CODE WITH US TOMORROW. Get 4 days

of developer-focused education for a great price! Plus, the earlier you register, the more you save!

4 DEVELOP BY DAY AND DO DISNEYLAND BY NIGHT.

All work and no play makes for a pretty boring conference. Our host hotel, the Hyatt Regency Orange County, is located just blocks from the Disneyland Resort, and it's also a short drive to Angel Stadium or "The OC" beaches.

DISCUSS AMONGST

YOURSELVES. Developers, engineers, software architects and designers from all around the world will be at the conference—take advantage of the meals and networking events to get to know your colleagues.

THE SET LIST IS

AWESOME. The content pretty much rocks, as the 4-day agenda offers multiple sessions in tracks such as Visual Studio /.NET Framework, ASP.NET/Core, Database & Analytics, JavaScript/HTML5, Xamarin, and so much more.

DECISIONS, DECISIONS,

DECISIONS. With over 60 sessions and workshops in a variety of tracks, you're free to choose what sessions you attend and when. You aren't bound to any one session or track! Sometimes it's hard to choose, though, so we provide all conference proceedings and any shared code for all the sessions free to attendees!

PANORAMIC PERSPECTIVE. We

8

want you to learn about the most recent software and industry updates from every angle. That's why you'll get to hear from both unbiased industry experts and Microsoft insiders at your sessions.

9 MEET THE BEACH

CODERS. What separates Visual Studio Live! from other conferences (and internetbased training) is the unparalleled access to the speakers. Get your questions answered in-between sessions, during meals and at fun evening events.

DON'T RELY ON INTERNET TRAINING ALONE. Getting out

from behind your desk, stepping away from the daily grind, and taking 4 days to soak in new knowledge is still the best way to move forward on new projects and breathe life into ones at the office.

THE FUN STUFF: visual studio live! Anaheim events

Visual Studio (IVE) ANAHEIM

YOUR ATTENDANCE AT VISUAL STUDIO LIVE! (VSLIVE!TM) **ANAHEIM, CA** is about learning from your peers as well as the experts; make the most of your time with us and add these events to your itinerary!

DINE-A-ROUND DINNER Monday, October 16 6:45pm – 9:00pm

Join other conference attendees and speakers for a casual, no-host dinner and make a few new friends while enjoying the fun and delicious restaurants in the Anaheim area. This is your opportunity to meet fellow attendees and start friendships that can last for the week or even longer. Attendees can break into smaller groups based on where everyone wants to dine and head off to dinner. Everyone is responsible for their own dinner and drinks.

WELCOME RECEPTION Tuesday, October 17 4:15 – 5:30pm

All conference attendees are invited to celebrate the start of Visual Studio Live! Anaheim at the Welcome Reception. Join us to network with fellow conference attendees and speakers, talk with the event sponsors, enjoy complimentary drinks and hors d'oeuvres, and participate in the conference raffle.

BIRDS-OF-A-FEATHER LUNCH Wednesday, October 18 12:00 – 1:30pm

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Plumb the knowledge and experience of your colleagues, conference speakers and exhibitors by participating in one of the BoF Table discussions. Tables will have a designated topic to help start discussions and interact with your fellow attendees. You may even learn a new trick or two or some great tips to take back to the office.

We will also have designated speaker tables noted with the speakers' name. Join your favorite speaker for a lunchtime discussion or just to ask questions or clarify anything from their sessions.



ROCK YUKCOD





VSLIVE!" GRAND PRIX EVENT

Visual Studio (LIVE) ANAHEIM

Wednesday, October 18 7:00pm – 8:00pm

Pre-registration & \$10 Confirmation Fee Required

A round-trip shuttle will be available from the Hyatt Regency Orange County to K1 Speed, beginning at 6:15pm.

DO YOU FEEL THE NEED? THE NEED

FOR SPEED?! Then join your fellow attendees for the VSLive! Grand Prix at K1 Speed, the premier kart racing center in Anaheim.

Each person will have the opportunity to race once for 10 laps! You can hit speeds of up to 45mph, as you navigate the twists and turns of this spectacular track, including a trip through two tunnels that glow with color changing lights.

Plus you'll have the chance to just relax and network with fellow attendees. Pizza and soft drinks will be served.



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AGENDA AT-A-GLANCE

ALM / DevOps	Cloud Computing	Database and Analytics	Native Client	Software Practices	Visual Studio / .NET Framework	Web Client	Web Server
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START TIME	END TIME	Visual Studio Live! Pre-Conference Workshops: Monday, October 16, 2017 (Separate entry fee required)					
7:30 AM	9:00 AM		Pre-Cor	nference Workshop Registra	tion • Coffee and Morning Pastries		
9:00 AM	6:00 PM	M01 Workshop: Distributed Cross-P Application Architecture - Jason Bock & Rockford Lhotk		M02 Workshop: I DevOps with - Brian I	VSTS or TFS	M	103 Workshop: Developer Dive into SQL Server 2016 - Leonard Lobel
6:45 PM	9:00 PM			Dine-A-	Round		
START TIME	END TIME		Visual S	Studio Live! Day 1: [.]	Tuesday, October 17, 20	17	
7:00 AM	8:00 AM			Registration • Coffee	and Morning Pastries		
8:00 AM	9:00 AM	KEYNOTE: To Be Announced - Dustin Campbell, Principal Software Engineer, .NET Developer Experience Team, Microsoft					
9:15 AM	10:30 AM	T01 - What's New in TypeScript? T02 - Go Mobile with C#, - Doris Chen Visual Studio, and Xamarin - James Montemagno T03 - To Be Announced			T04 - What's New in Visual Studio 2017 - <i>Robert Green</i>		
10:45 AM	12:00 PM	Apps in JavaScript with TypeScript Xamar		mizing and Extending .Forms Mobile Apps <i>nes Montemagno</i>	T07 - What's New for Develop in SQL Server 2016 - <i>Leonard Lobel</i>	oers	T08 - To Be Announced
12:00 PM	1:30 PM	Lunch					
1:30 PM	2:45 PM	T09 - Angular 101: Part 1 - Deborah Kurata T10 - Get Started with Git and GitHub - Robert Green		T11 - Exploring T-SQL Enhancen Windowing and More - Leonard Lobel	nents:	T12 - Microsoft Teams— More Than Just Chat! - <i>Nedra Allmond</i>	
3:00 PM	4:15 PM	T13 - Angular 101: Part 2 - Deborah Kurata		Again, Faster! Automate ws Deployment Pipeline	T15 - What's New in Azure laa - <i>Eric D. Boyd</i>	S v2	T16 - Open Source for the Microsoft Developer <i>- Rockford Lhotka</i>
4:15 PM	5:30 PM			Welcome	Reception		

"I LOVED THE MONDAY WORKSHOP. HAVING EIGHT HOURS GAVE ME THE KNOWLEDGE NEEDED TO TAKE WHAT I LEARNED AND ACTUALLY USE IT. THE WORKSHOP WAS LONG ENOUGH SO THAT I COULD FOLLOW ALONG WITH MY LAPTOP AND ASK QUESTIONS AS NEEDED."

- Corey Baker, Toyota

Continued next page

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AGENDA AT-A-GLANCE (continued)

ALM / DevOps	Cloud Computing	Database and Analytics	Native Client	Software Practices	Visual Studio / .NET Framework	Web Client	Web Server
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START TIME	END TIME		Visual Studio Live! Day 2: W	ednesday, October 18, 2017			
7:30 AM	8:00 AM		Registration • Coffee	and Morning Pastries			
8:00 AM	9:15 AM	W01 - I Just Met You, and "This" is Crazy, But Here's My NaN, So Call(Me), Maybe? - Rachel Appel	e's My NaN, So Call(Me), Maybe?		W04 - What's New in C#7 - Jason Bock		
9:30 AM	10:45 AM	W05 - Practical Performance Tips and Tricks to Make Your HTML/JavaScript Faster - Doris Chen	W06 - Real World VSTS Usage for the Enterprise - <i>Jim Szubryt</i>	W07 - Cloud Oriented Programming - Vishwas Lele	W08 - I'll Get Back to You: Understanding Task, Await, and Asynchronous Methods - Jeremy Clark		
11:00 AM	12:00 PM	GENERAL SESSION: The Future of Technology Seen through the Eyes of Computer Vision - Tim Huckaby, Founder / Chairman – InterKnowlogy & Actus Interactive Software					
12:00 PM	1:30 PM	Birds-of-a-Feather Lunch					
1:30 PM	2:45 PM	W09 - Assembling the Web— A Tour of WebAssembly <i>- Jason Bock</i>	W10 - Database Lifecycle Management and the SQL Server Database - Brian Randell	W11 - Microservices with Azure Container Service & Service Fabric - <i>Vishwas Lele</i>	W12 - Getting Started with Entity Framework Core - Jim Wooley		
3:00 PM	4:15 PM	W13 - Building Single Page Web Applications Using Aurelia.js and the MVVM Pattern - Ben Hoelting	W14 - Getting to SAFe in the Enterprise - <i>Jim Szubryt</i>	W15 - Busy Developer's Guide to the Clouds - <i>Ted Neward</i>	W16 - Improving Code Quality with Roslyn Code Analyzers - Jim Wooley		
4:30 PM	5:45 PM	W17 - Securing Angular Apps - Brian Noyes	W17 - Building Applications with DocumentDb—New Features and Best Practices - <i>Raj Krishnan</i>	W18 - Busy Developer's Guide to the Google Cloud Platform - <i>Ted Neward</i>	W19 - Learn to Love Lambdas (and LINQ, Too) <i>- Jeremy Clark</i>		
6:15 PM	8:00 PM		VSLive! Gran	d Prix Event			

Sessions and speakers subject to change.



AGENDA AT-A-GLANCE (continued)

ALM / DevOps	Cloud Computing	Database and Analytics	Native Client	Software Practices	Visual Studio / .NET Framework	Web Client	Web Server
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START TIME	END TIME	Visual Studio Live! Day 3: Thursday, October 19, 2017					
7:00 AM	8:00 AM		Registration • Coffee	and Morning Pastries			
8:00 AM	9:15 AM	TH01 - ASP.NET Core MVC— What You Need to Know - <i>Philip Japikse</i>	TH02 - Tools for Modern Web Development Dev Ops <i>- Ben Hoelting</i>	TH03 - The Rise of the Machines— Machine Learning for Developers - Adam Tuliper	TH04 - Storyboarding 101 - Billy Hollis		
9:30 AM	10:45 AM	TH05 - Role-Based Security Stinks: How to Implement Better Authorization in ASP.NET and ASP.NET Core - <i>Benjamin Day</i>	TH06 - Building Cross-Platform Apps in C# using CSLA .NET <i>- Rockford Lhotka</i>	TH07 - Introduction to Machine Learning with R - <i>Raj Krishnan</i>	TH08 - Agile: You Keep Using That Word <i>- Philip Japikse</i>		
11:00 AM	12:15 PM	TH09 - From Zero to the Web API - Paul Sheriff	TH10 - Programming with the Model-View-ViewModel Pattern - <i>Miguel Castro</i>	TH11 - I'm Emotional—Using Microsoft Cognitive Services to Understand the World Around You - Adam Tuliper	TH12 - Top 10 Ways to Go from Good to Great Scrum Master <i>- Benjamin Day</i>		
12:15 PM	12:15 PM 1:15 PM		Lur				
1:15 PM	2:30 PM	TH13 - Cortana Everywhere: Speech, Conversation & Skills Development - <i>Nick Landry</i>	TH14 - Roll Your Own Dashboard in XAML <i>- Billy Hollis</i>	TH15 - Unit Testing T-SQL Code - Steve Jones	TH16 - Exposing an Extensibility API for your Applications - <i>Miguel Castro</i>		
2:45 PM	4:00 PM	TH17 - Securing Web Apps and APIs with IdentityServer - <i>Brian Noyes</i>	TH18 - Windows 10 for Developers: Building Universal Apps for 1B Devices - Nick Landry	TH19 - A Tour of SQL Server Security Features - Steve Jones	TH20 - Real World Applications for Dependency Injection - Paul Sheriff		

Sessions and speakers subject to change.

PRE-CONFERENCE WORKSHOPS

ANAHEIM

MONDAY, OCT 16, 9:00am - 6:00pm

Choose from a range of content and topics by expert presenters with Visual Studio Live! Anaheim's Pre-Conference full day workshops.

M01 Workshop: Distributed Cross-Platform Application Architecture

Intermediate

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JASON BOCK & ROCKFORD LHOTKA

When it comes to software architecture and development, distributed computing is both a pressing development concern and age-old concept. It can still be confusing and intimidating to work with systems spanning multiple machines and platforms, especially with the myriad cloudbased and on-premises technologies available today. You have numerous resources at your disposal to make your distributed systems scalable, reliable, and maintainable. This workshop will cover the fundamentals of distributed computing, along with tools and frameworks you can use to build and deploy your application. You'll learn how to apply technologies such as Azure Functions, Azure Service Fabric, Signal-R, RESTful services, and so on

M02 Workshop: Practical ASP.NET DevOps with VSTS or TFS

Intermediate

BRIAN RANDELL

DevOps is the union of people, process, and product to provide continuous delivery of value. Implementing a DevOps practice in your organization is a complex multistep process. Assuming you get organizational buy-in and your team is ready to go, how can you practically implement DevOps if you're committed to building high quality ASP.NET applications? How can you use either Visual Studio Team Services (VSTS) or Team Foundation Server (TFS) 2017 to create an effective release pipeline?

This workshop will show you how to use Visual Studio 2017, ASP.NET, either VSTS or TFS 2017 create an

effective, automated pipeline. The day will be broken down into five sections:

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- Level Set
- Plan and Track
- Develop and Test
- Release
- Monitor and Learn

The workshop starts by level-setting everyone on terms and technology. Then you'll explore four phases where development and operations can come together around the process of getting—and keeping—an ASP.NET application running smoothly. By the end of the day, you'll have seen how to start with just code and end up with a fully functioning continuous delivery pipeline running either on a local TFS installation or in the cloud with VSTS.

You will learn:

- · How choose VSTS or TFS for your team's toolset
- How to use the tools to increase cross-team communication
- · How to build quality into every phase of your pipeline

M03 Workshop: Developer Dive into SQL Server 2016

Intermediate

LEONARD LOBEL

This full-day workshop will get you up to speed on powerful features in SQL Server geared for developers. You'll rip through the most important SQL Server programmability points in this intensive demo-packed tour, including the latest capabilities introduced with SQL Server 2016.

Part 1: T-SQL Features: The workshop starts with the many T-SQL enhancements. You'll learn how to use table-valued parameters to marshal entire sets of rows across the network from client to server, and how to pass them between your stored procedures and UDFs. You'll find out

about MERGE, a powerful DML statement that combines the capabilities of four (or more) separate operations; and INSERT OVER DML, which enhances your ability to capture change data from the OUTPUT clause of any DML statement. You'll also work with the various date and time data types, which include support for time zone awareness. Then you'll learn about the latest T-SQL windowing (OVER clause) enhancements, running and sliding aggregates, 22 new functions, the THROW statement, server-side paging, the SEQUENCE object, and DIE (drop if exists).

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Part 2: What's New in SQL Server 2016: During the next segment, you'll explore many of the latest features introduced in SQL Server 2016. You'll discover new security features such as dynamic data masking, row-level security, and always encrypted. Other innovative capabilities include "stretch" database (which lets you transparently relocate select tables in an on-premises database to an Azure SQL database), temporal data (which lets you "time travel" to access data as it existed at any point in time), and integrated JSON support. You'll also learn about In-Memory OLTP (aka Hekaton) and the new improvements in SQL Server 2016 that help you achieve performance gains of up to 30 times by identifying those tables that can improve performance simply by implementing them as memory-optimized tables in the database.

Part 3: Beyond Relational: In this final segment, you'll examine the powerful "beyond relational" features and start thinking outside the box with respect to the types of data you can manage with a relational database system. You'll learn about the new built-in JSON support in SQL Server 2016, and dig into FILESTREAM and FileTable and discover how you can enjoy the native ability to store large binary objects in the file system. You'll also learn about geospatial data types that help you integrate location-intelligence into the database and build several location-aware applications on top of these new data types, including a Bing Maps mash-up. You'll learn a ton of new SQL Server features in this information-packed day.

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ALM / DevOps

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Shipping high quality software may be a team sport, but doing it basically requires herding cats. From process management to the mechanics of

automation, you need to get people, process, and tools working in harmony. Good Application Lifecycle Management (ALM) practices are hard. Add to that the fact that business demands more from teams, more quickly, and it's clear that we as an industry need to evolve. DevOps is the hot buzzword but what does it mean and how do you bring it to your organization?

In this track, we've got a range of sessions to help you build software that has greater quality and can be delivered continuously if your users need it. You'll find coverage of:

- Using Git and GitHub
- Tools for Modern Web DevOps
- Tactical DevOps and VSTS
- Automated Windows Deployment Pipelines
- Agile development tips and tricks
- Real-world VSTS use in the Enterprise
- Database Lifecycle Management for SQL Server

T10 Get Started with Git and GitHub

Introductory / Intermediate

ROBERT GREEN

Tuesday, October 17, 1:30 - 2:45pm

Git is a free, open source distributed version control system. It has become wildly popular as a way to not only manage source code, but also share code with others. This session will cover the basics of using Git. You will become familiar with repos, committing changes, branching and merging. You'll see how to work with both new and existing projects, how to store your code in both GitHub and Visual Studio Team Services and how to work with Git in Visual Studio and Visual Studio Code.

You will learn:

- What Git is and how to use it for managing code
- The basics of Git, including repos, committing changes, branching and merging
- How to use Git with GitHub, VSTS, Visual Studio and Visual Studio Code

T14 Do It Again, Faster! Automate Your Windows Deployment Pipeline

Intermediate

Tuesday, October 17, 3:00 - 4:15pm

Over the last three years, Microsoft has acquired and built some of the fastest growing developer tools for continuous delivery and monitoring "DevOps" services like HockeyApp, Xamarin Test Cloud, Capptain, and CodePush. This year, Microsoft is combining those businesses into a new service called Visual Studio Mobile Center. Learn how you can leverage Mobile Center to fully automate your release pipeline, builds, tests, and beta distribution. You'll also explore how to integrate the Mobile Center SDK to measure user engagement and product health in the wild.

You will learn:

- How to build your apps automatically with every pull request
- How to automatically distribute passing builds to beta testers
- How to monitor production apps for crashes and bugs to prioritize fixes
- How to collect mobile analytics and understand your users

W02 Tactical DevOps with VSTS

Introductory

BRIAN RANDELL

Wednesday, October 18, 8:00 - 9:15am

Come spend 75 minutes digging into Visual Studio Team Services with Visual Studio 2017. No theory—just a practical drill down into the latest features you can use to take a .NET Core Web Application and get a full DevOps pipeline working on either Windows or Linux. This session will cover storing code in private Git repos, tracking work using the Scrum Template, creating a build that runs unit tests, creating a release that runs deployment tests, and adding analytics so you know how your site is performing.

You will learn:

- How to create a .NET Core Web Application
- How to manage the app development process with VSTS
- How to create a practical DevOps pipeline

W06 Real World VSTS Usage for the Enterprise

Introductory

JIM SZUBRYT

Wednesday, October 18, 9:30 - 10:45am

Taking a large enterprise to VSTS isn't simple, especially if you have an investment in your on-premises TFS platform. You need to evaluate customized templates,

SESSION DESCRIPTIONS BY TRACK (continued)

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reporting and applications that meet your business/ process needs. Planning and executing on this is critical to your successful migration. You also have to think through security considerations, expectation management, feature releases and availability for hundreds or thousands of developers if you plan on moving to the cloud. This session will provide you guidance and experience of how to successfully tackle this.

You will learn:

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- What you need to consider in proposing to going to VSTS and integrating into your Active Directory
- About the effort it will take you to go to VSTS
- Hybrid approaches to going to VSTS and determining the migration path

W10 Database Lifecycle Management and the SQL Server Database

Intermediate

BRIAN RANDELL

Wednesday, October 18, 1:30 - 2:45pm

DevOps is hot, but the database is often the missing link. How do you manage the necessary changes need to support your applications? How do you track these changes and follow a change from development to test to production? You need an effect database lifecycle management plan.

In this session, you'll learn where the SQL Server database fits in to DevOps, and how you can use tools to extend your infrastructure to make the database a first-class citizen, just like your source code. You'll see how to track changes with version control, create update packages, and with complete automation, deploy to multiple environments like development, test, UAT, and production and basically bring things under control with Database Lifecycle Management. You'll learn the process as well as see examples using the Visual Studio SQL Server Database Tools, Team Foundation Server Team Build, Release Management, as well as custom tools from Redgate.

You will learn:

• Why you need DevOps for your database

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• How to define a good Database Lifecycle Management (DLM) process

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How to use Microsoft and Redgate tools to implement
the DLM process

TH02 Tools for Modern Web Development Dev Ops

Intermediate

BEN HOELTING

Thursday, October 19, 8:00 - 9:15am

ASP.NET Core embraces open source tools and technologies. This isn't a bad thing. Opening ASP.NET will only make it stronger by letting you use best practices for modern web development. Learning these best practices and the tools and technologies you'll need will make you a more productive developer. NPM, Bower, Gulp and Webpack are only some of the things you need to master. These technologies will soon replace some of the things you've hacked and bandaged in ASP.NET over the years. This session will dive into these and other modern web development tools for your tool belt.

You will learn:

- Why ASP.NET is beginning to embrace open source
- About NPM, Bower, Gulp, Webpack and Yoeman
- The best practices associated with these tools

Cloud Computing

A growing number believe the future of application development is servicebased and in the cloud. Cloud computing offers flexible scalability and

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can provide a less expensive way to host many applications. Even if you aren't ready for Microsoft Azure yet, you owe it to yourself to familiarize yourself with cloud computing and the services approach to development.

This track includes coverage of the following:

- Guide to the Clouds
- What's New in Azure laaS v2
- Microservices with Azure Container Service & Service Fabric
- Azure Functions
- Build modern web apps with Azure
- Introduction to the Google Cloud Platform

T15 What's New in Azure laaS v2

Introductory / Intermediate

ERIC D. BOYD

Tuesday, October 17, 3:00 - 4:15pm

If you've been working with Azure Infrastructure Services for a while, you're probably familiar with virtual machines running within the boundary of a cloud service. You're probably using Affinity Groups and the imperative Service Management API—whether you call it directly, use the Classic Azure Management Portal, or PowerShell. However, there's a new Azure in town with a new Management Portal. This new Azure has different management APIs powered by Azure Resource Manager and a new set of Infrastructure Services known as IaaS v2. This session will

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SESSION DESCRIPTIONS BY TRACK (continued)

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introduce you to what's new in Azure laaS v2; from the new service architecture, new resources, and capabilities to the Azure Resource Manager. You'll also learn how to migrate your existing laaS v1 resources and some of the transition challenges you may encounter.

You will learn:

• All about Azure IaaS v2

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- How to work with laaS v2 using ARM
- Migration strategies and transition challenges

W03 Go Serverless with Azure Functions

Introductory / Intermediate

ERIC D. BOYD

Wednesday, October 18, 8:00 - 9:15am

Idle CPU cycles are wasteful, but you probably have far more computing capacity on hand than you actually use. Serverless computer architectures have arrived to save us from that waste. Serverless is a shift in provisioning compute resources and paying for these resources from cloud providers. Instead of deploying resources and not fully using them, you only pay for consumption and compute cycles you use.

This session will help you understand Microsoft's serverless computing in Azure. You'll learn about serverless architectures and Azure Functions. You'll get an overview of how to get started developing and running serverless code. You'll also explore how to integrate with other services and trigger your code from events throughout Azure and even in data centers outside of Azure.

Besides the fundamentals of developing and deploying serverless code in Azure Functions, you'll learn about the tooling and DevOps capabilities that exist for working with Functions. Finally, you'll model the pricing together to understand the billing model and what to expect when running Azure Functions and when to use Azure Functions over other platforms.

You will learn:

- About serverless compute architecture and Azure Functions
- How to get started developing and deploying Azure Functions
- How to estimate pricing for Azure Functions

W07 Cloud Oriented Programming

Intermediate

VISHWAS LELE

Wednesday, October 18, 9:30 - 10:45am

The public cloud is tomorrow's IT backbone. As cloud vendors introduce new capabilities, the applicationbuilding process is going through a profound transformation. The cloud is based on the key tenets of commodity hardware, usage-based billing, scale-out, and automation—all on a global scale. So how does the cloud affect what you do as a developer every day? What do you need to do at the code level that aligns with the aforementioned tenets? This session will go over tips and tricks designed to help you make more effective use of the cloud.

You will learn:

- About the tenets of cloud development: global scale, commodity hardware, usage-based billing, scale-out, and automation
- How the cloud impacts what you do as a programmer every day
- What you need to do at a program level that aligns you with those tenets

W11 Microservices with Azure Container Service & Service Fabric

Intermediate

VISHWAS LELE

Wednesday, October 18, 1:30 - 2:45pm

Many are increasingly seeing microservices as the architectural style of choice, especially when it comes

to building cloud-based applications. This session will look at key tenets of microservices. Then you'll switch to practically applying these concepts to two related Azure Services: Azure Container Service and Azure Service Fabric.

W15 Busy Developer's Guide to the Clouds

Introductory / Intermediate

TED NEWARD

Wednesday, October 18, 3:00 - 4:15pm

Microsoft has one. Amazon has one. It turns out there are many different developer-focused cloud environments out there. Sometimes it's exactly what you need to get your project going quickly—assuming you know it exists. This session will survey of a variety of different cloud providers, many with wildly varying different approaches to "what developers need," and give you a series of ideas to explore the next time the boss says, "We need to move into the cloud."

You will learn:

- About Azure and AWS
- · About offerings from other environments
- How working with multiple cloud providers can be both a good and a bad thing

W19 Busy Developer's Guide to the Google Cloud Platform

Introductory / Intermediate

TED NEWARD

Wednesday, October 18, 4:30 - 5:45pm

The Google Cloud Platform is the third of the "Big Three" of the cloud providers, along with AWS and Azure. Like the other two, Google provides some interesting features. This session will take a whirlwind pass through GCP, how to get started, and when you might consider it over the other two.

ROCK YOUR COL

SESSION DESCRIPTIONS BY TRACK (continued)

ANAHEIM

Database and Analytics

Visual Studio (IVE)



SQL Server 2016 is here, but so too are NoSQL databases. There are also Big Data and data lakes. Machine learning

and artificial intelligence are on the rise as well. When it comes to data, Visual Studio Live! helps you keep up with the old and the new; the traditional and the disruptive, with coverage including:

- What's new in SQL Server 2016
- Building Apps with DocumentDb
- T-SQL Enhancements for SQL Server
- Unit Testing T-SQL
- Machine learning for Developers
- SQL Server Security for Devs
- Machine Learning with R
- Microsoft Cognitive Services

T07 What's New for Developers in SQL Server 2016

Introductory / Intermediate

LEONARD LOBEL

Tuesday, October 17, 10:45am – 12:00pm

SQL Server 2016 has many powerful new features, and you'll learn about them in this demo-packed session. Discover new security features such as dynamic data masking, row-level security, and always encrypted. Other innovative capabilities include stretch database (which lets you transparently relocate select tables in an on-premises database to be in Azure SQL Database), temporal data (which lets you "time travel" to access data as it existed at any point in time), and integrated JSON support. Attend this session and you'll be ready for SQL Server 2016.

You will learn:

- About the new security features in SQL Server 2016, including dynamic data masking, row-level security, and always encrypted
- About stretch database and temporal data support added in SQL Server 2016
- How Store, retrieve, and manipulate JSON data in SQL Server

T11 Exploring T-SQL Enhancements: Windowing and More

Intermediate

LEONARD LOBEL

Tuesday, October 17, 1:30 - 2:45pm

This informative and demo-packed session will quickly get you up to speed on SQL Server's powerful windowing features. You'll learn how to leverage windowing with the OVER clause to calculate running and sliding aggregations, row lookups, and percentiles based on rank. You'll also explore other T-SQL enhancements, including new functions (all 22 of them), improved error handling with THROW, server-side paging with OFFSET/FETCH NEXT, sequence generators, and metadata discovery techniques. If you want to learn about windowing and other T-SQL enhancements in SQL Server, you won't want to miss this session.

You will learn:

- About the windowing features in SQL Server
- About the 22 new T-SQL functions, including 8 new analytic windowing functions
- About explore OVER, THROW, OFFSET, and metadata discovery

W18 Building Applications with DocumentDb—New Features and Best Practices

Intermediate / Advanced

RAJ KRISHNAN

Wednesday, October 18, 4:30 - 5:45pm

DocumentDb is a powerful NoSQL offering from Microsoft and continues to evolve rapidly. This session will discuss some of the new capabilities like DocumentDb Emulator, multi-region replication, global read / write, enhanced security, support for change data, connectors and integration with Big Data and other Cloud services. It will also cover best practices based on Azure DocumentDb product group experiences form active customers using DocumentDb globally.

You will learn:

- About DocumentDb as a NoSQL database
- About the new Features and Capabilities that are useful to build scalable and connected applications
- Best practices for designing, developing and monitoring applications with DocumentDb as the NoSQL database backend

TH03 The Rise of the Machines— Machine Learning for Developers

Introductory

ADAM TULIPER

Thursday, October 19, 8:00 - 9:15am

Machine Learning is an amazing technology that uses pattern recognition and computational learning theory in AI. So what does that mean to the normal developer? This session will take you through the basics of what machine learning is and understanding its uses. Real world examples will help you learn what data sets work best for prediction, as well as which pre-canned algorithms to use for different data types.

ROCK YOUR CODE

SESSION DESCRIPTIONS BY TRACK (continued)

ANAHEIM

You'll learn how to hit the ground running with setting up your own machine learning experiments to predict information and use real world data to predict outcomes. If you know little to nothing about ML, this session is for you.

You will learn:

Visual Studio (IVE)

- About R
- How to immediately get using Machine Learning and the environments available to you
- The difference between common algorithms and when to apply them

TH07 Introduction to Machine Learning with R

Introductory / Intermediate

RAJ KRISHNAN

Thursday, October 19, 9:30 - 10:45am

Based on the April 2017 TIOBE rating, R is one of the top 15 programming languages and continues to grow. It's currently among the top three languages used in Data Science. This session will review some basic statistical concepts before introducing R for data analysis. It will discuss the fundamental concepts needed to work with R and use IDE to work with R commands. There will also be a demonstration of using R for data analysis using publicly available data, and using R tools for Visual Studio and Microsoft R server.

You will learn:

- A basic understanding of Machine Learning with R as the language
- How to use the tools to build models to predict outcome based on data observations
- · How to leverage cloud for R projects

TH11 I'm Emotional—Using Microsoft Cognitive Services to Understand the World Around You

Introductory

ADAM TULIPER

Thursday, October 19, 11:00am – 12:15pm

Getting meaningful information from media has been reserved for specialized companies and federal agencies for a long time, yet many applications can benefit from such a technology. You can now make your apps incredibly smarter and eliminate "I'm sorry Dave, I can't do that." Cognitive Services from Microsoft let your applications use advanced algorithms easily to extract information from images and videos to understand what is in a picture, what emotions are being conveyed by the people, and so on.

You will learn:

- How to analyze faces and emotions
- How to understand content in images with computer vision
- To gain insight into what information is comprised in a video

TH15 Unit Testing T-SQL Code

Intermediate

STEVE JONES

Thursday, October 19, 1:15 - 2:30pm

Unit testing has become an integrated, expected part of most software development teams. Many database developers have yet to implement unit testing as a regular habit. This session will look at two-unit testing frameworks and show how to implement tests for common types of non-trivial T-SQL queries. You'll examine the tSQLt framework as well as the Microsoft Unit Testing framework for SQL Server.

You will learn:

- How to structure and build unit tests for database code with tSQLt
- How to structure and build unit tests for database code with database projects
- Understand the challenges of test data and how to solve them

TH19 A Tour of SQL Server Security Features

Introductory / Intermediate

STEVE JONES

Thursday, October 19, 2:45 - 4:00pm

Protecting data from unauthorized access becomes more important all the time. SQL Server includes a number of features that make data protection and security easier for developers and DBAs with a framework for protecting data. Come learn how Always Encrypted, TDE, Row Level Security, Dynamic Data Masking, and column level encryption can protect your systems.

You will learn:

- About the different encryption and security features in SQL Server
- Understand the code changes required for encryption mechanisms
- Gain a basic understanding of RLS and DDM, which do not require code changes to help protect data

SESSION DESCRIPTIONS BY TRACK (continued)

ANAHEIM

Native Client

Visual Studio (LIVE)



Native applications, whether running on Windows, iOS and Android are of utmost importance. Mobile apps are becoming common for people to interact with each

other, their organizations and their business applications. In the desktop arena, it can be easy to forget that there are more than a billion Windows PCs in the world and Windows remains the dominant OS. This track is focused on building native mobile apps with tools like Xamarin and Windows apps using XAML and other technologies. This track includes coverage of the following:

- Mobile development in C# with Xamarin and Visual Studio
- Xamarin and Xamarin Forms
- Windows 10 for Developers and Universal
 Windows Apps
- Cross-Platform Apps in C# with CSLA.NET
- Building a custom dashboard in XAML
- Programming with MVVM

T02 Go Mobile with C#, Visual Studio, and Xamarin

Introductory / Intermediate

JAMES MONTEMAGNO

Tuesday, October 17, 9:15 - 10:30am

The mobile landscape continues to evolve at a rapid pace. Users expect great native experiences in the palm of their hands on each and every platform. The separate programming languages and tools to learn and maintain for each platform are a major hurdle. Even if you tackle the burden of learning Objective-C, Swift, or Java, you'll still have to manage multiple code bases. This is a nightmare for any development team. It doesn't have to be this way. You can create Android, iOS, Windows Phone, and Windows Store apps leveraging the .NET framework and everything you love about C#.

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This session will teach you about Xamarin and how it can help you leverage a shared C# code base across all mobile platforms. You'll walk through developing, designing, deploying, and optimizing your first mobile apps for iOS, Android, and Windows from a single code base. You'll even see how to share more code with Xamarin.Forms, which lets you build native UIs for iOS, Android and Windows Phone from a single, shared C# codebase. You'll walk away with the knowledge to build cross platform mobile app with C# features such as LINQ, async/await, events, and delegates and inside of both Visual Studio and Xamarin Studio.

You will learn:

- How to apply C# and Visual Studio skills for mobile development
- About assessment tools for determining how much existing C# code can be mobilized
- About architectural best practices

T06 Optimizing and Extending Xamarin. Forms Mobile Apps

Intermediate

JAMES MONTEMAGNO

Tuesday, October 17, 10:45am - 12:00pm

Xamarin.Forms helps you build a native UI for three platforms with one shared C# codebase. Simply put, if you know C# then you already know how to build iOS, Android, and Windows apps. Leverage the .NET Framework to build out your shared business logic including integration with web services and Azure Mobile Apps and then build out your shared UI in C# or XAML. Xamarin.Forms also features a built-in two-way data binding, dependency service to help you implement platform-specific code, an advanced cross-platform animation system, support for custom controls, and lots of other powerful features to help you build the best apps possible in the least amount of time.

ROCK YULK CODE TOUR 2017

This session will focus on the latest developments in Xamarin.Forms that will help you share more code and build more beautiful apps in less time. You will look at Custom Renders, Effects, Platform Specifics, Bindable Native Views, the Xamarin.Forms previewer, and more. You'll also look at tweaking and tuning your Xamarin. Forms applications for the best performance possible.

You will learn:

- About sharing XAML between iOS, Android, and Windows with shared and native views
- How to easily extend Xamarin.Forms with effects and platform specifics
- How to optimize your Xamarin.Forms apps

TH06 Building Cross-Platform Apps in C# using CSLA .NET

Intermediate

ROCKFORD LHOTKA

Thursday, October 19, 9:30 - 10:45am

In today's world, you may write your smart client app in UWP, Xamarin, WPF, or even Windows Forms. In each case, your app probably calls back-end services and needs to interact with app servers. Some or all of your business logic may run on the client, the app server, or both. That's ideal for the balance between user interactivity, performance, scalability, and security. The widely-used open source CSLA .NET framework helps you create a reusable, scalable, and cross-platform portable business layer that lets your application run on multiple types of client devices while sharing business logic between the clients and your app server. This session is an end-to-end walkthrough of how this works and how you can benefit.

ROCK YOUR CODE

SESSION DESCRIPTIONS BY TRACK (continued)

ANAHEIM

TH10 Programming with the Model-View-ViewModel Pattern

Intermediate

MIGUEL CASTRO

Visual Studio (LIVE)

Thursday, October 19, 11:00am – 12:15pm

MVVM became popular with WPF, but the pattern is also applicable in many platforms, including the Universal Windows Platform as well as Xamarin Forms. If you notice a commonality that all these use XAML, you would be correct. The ideas and goal around the MVVM pattern seem to vary from person to person, but the one thing that they all share is that it provides a reusable and testable point of binding for XAML views. This session will show you what MVVM is and how to use it and what to put in it, in order to get maximum potential out of XAML binding. You'll see examples in both WPF and UWP applications. This pattern is so popular and powerful, though, it's at the root of many web frameworks like Angular, Knockout, and Aurelia. You'll be able to take this knowledge with you on the road to use in other platforms.

You will learn:

• The importance of the MVVM pattern

- Full understanding of XAML data binding
- Unit testing view-models

TH14 Roll Your Own Dashboard in XAML

Intermediate

BILLY HOLLIS

Thursday, October 19, 1:15 - 2:30pm

XAML is well-suited to dynamic interfaces such as dashboards. Most XAML developers are more accustomed to static user interfaces, though. They aren't experienced with creating dynamic, pluggable user interfaces. This session will present a simple architecture for a dashboard that allows for pluggable panels, with options to select panels and determine their position. If your business users have been clamoring for a place to put important visual components not needed by all users, this session can help get you started.

You will learn:

- About dynamic dashboards, based on designs for a real application
- The concept of a generic dashboard control, which leverages the concept of a content control in XAML
- Basic design for a dashboard manager that allows users to select and place dashboard controls

TH18 Windows 10 for Developers: Building Universal Apps for 1B Devices

NICK LANDRY

Thursday, October 19, 2:45 - 4:00pm

Universal Windows apps share a maximum amount of code across a wide range of devices, including smartphones, phablets, tablets, laptops, desktops, hybrids, 2-in-1's and even servers. You can build Universal apps natively using either HTML+Javascript, or XAML with C#, VB or C++. Windows 10 is the final destination for convergence with "One Windows across all devices," adapting itself to the device form factor to provide the optimum capabilities and user experience. Windows 10 improves on this model with the Universal Windows Platform (UWP) that lets you build a single binary across all Windows 10 platforms, even Xbox One, Windows on Devices and HoloLens. This overview session will explore new features for developers in Windows 10, including code sharing, targeting specific devices and API contracts, Visual Studio tooling, new APIs, and also what's new in the latest release of Windows 10. There is finally one code base, one binary, countless Windows devices to run it on.

You will learn:

- The basics of the Universal Windows Platform in Windows 10, how to get started in mobile development and the available tools, including the emulators
- How to design a converged Windows 10 app user interface with XAML in Visual Studio, which controls are available, how to share code, and more
- About specific development features like API contracts, touch gestures, accelerometers, Live Tiles, speech, notifications, location, mobile data access and more

"I REALLY LIKED THE NETWORKING AND FRIENDLY ATMOSPHERE. CONTENT WAS UP TO DATE, PLUS THERE WERE NO COOKIE-CUTTER SESSIONS WHICH MAKES LISTENING TO LECTURES MORE ENJOYABLE."

- James McConnell, Anexinet

SESSION DESCRIPTIONS BY TRACK (continued)

ANAHEIM

Software Practices

Visual Studio (LIVE)



Every developer knows there's more to software development than just code and tooling. The practices and

techniques we use to understand and

analyze the problem space, to manage interpersonal communication and conflict, and other patterns and practices are key to success.

Topics in this track include:

- Understanding Agile
- Microsoft Teams
- Storyboarding 101
- SAFe for Enterprise Teams
- Good to great as a Scrum Master
- Open source for Microsoft developers
- Dependency injection in the real world
- Extensibility APIs for your apps

T12 Microsoft Teams—More Than Just Chat!

Introductory

NEDRA ALLMOND

Tuesday, October 17, 1:30 - 2:45pm

This session will describe and demonstrate how technical and sales teams overcame challenges to learn to collaborate on the MS Teams powerful platform. A non-technical sales team was up and running with full adoption in a matter of days. The group learned best practices around governance, organization, effective communication, and trusted teamwork that you'll hear about in this session.

You will learn:

- How to use Teams and suggest topic relevant-practices for their organization of small or large numbers
- How to apply a solid governance plan around MS Teams to prevent wildfire growth
- How to apply tips learned from demos to quickly get all technical levels collaborating rapidly

T16 Open Source for the Microsoft Developer

Intermediate

ROCKFORD LHOTKA

Tuesday, October 17, 3:00 - 4:15pm

In today's world, it has become virtually impossible to write software without using open source tools, libraries, or frameworks. Even if you avoid "third party" open source components, Microsoft is open-sourcing more of .NET itself, so it's practically inescapable. Should you be worried? Didn't Steve Ballmer tell us open source was bad and dangerous? Well, there are things you should know about open source in terms of licensing, maintainability, and support. Many of those things you need to think about when using any code you didn't write yourself; open source or otherwise. By the end of this session, you'll understand where open source does and doesn't differ from traditional proprietary tools, libraries, and frameworks. You might still be worried, but at least you'll understand why you are worried.

You will learn:

- About OSS licensing
- Where open source does and doesn't differ from proprietary tools, libraries, and frameworks
- To embrace open source

W14 Getting to SAFe in the Enterprise

Introductory / Intermediate

JIM SZUBRYT

Wednesday, October 18, 3:00 - 4:15pm

Having Agile teams are great, but how can you get to successfully using Scaled Agile Framework (SAFe) in the enterprise? Identifying the constructs and practices of getting to SAFe is a challenge and there are successful ways to navigate the waters.

You will learn:

- How enterprises should look to adopt SAFe
- · How to identify the roadmap
- How to take journey to SAFe

TH04 Storyboarding 101

Introductory

BILLY HOLLIS

Thursday, October 19, 8:00 - 9:15am

Billy's first rule for designing better UX—don't sit down at your computer first. Use paper, pencil, and other realworld tools to explore a design space of ideas. Create many low fidelity, low investment designs, and then evaluate and select the best for further design, wireframing, and prototyping. This session will get you started.

You will learn:

- The reasons that starting with paper and pencil will result in more fluid and innovative designs
- How experimental design produces better results that the usual single-track design
- Basic techniques and options for sketching low fidelity, low investment, innovative designs and interactions

ROCK YOUR COD

SESSION DESCRIPTIONS BY TRACK (continued)

ANAHEIM

TH08 Agile: You Keep Using That Word...

Intermediate

PHILIP JAPIKSE

Visual Studio (IVE)

Thursday, October 19, 9:30 - 10:45am

Much like the dotcom boom when everyone declared themselves a programmer, once David Norton of Gartner Research declared agile mainstream on August 26, 2009, you can't throw a stone without hitting someone who claims to be an "Agilista." From the proliferation of "agile" frameworks and certifications, to all of the people who decided to hang out a shingle as a coach, it can be hard to remember the true essence of being agile. This session will remove the fluff and hyperbole, and get down to the roots of what it means to be agile.

You will learn:

- The goals of agile
- How to apply these goals
- How to prepare for the transition

TH12 Top 10 Ways to Go from Good to Great Scrum Master

Advanced

BENJAMIN DAY

Thursday, October 19, 11:00am – 12:15pm

The Scrum Master role in an organization can be difficult. You live between a rock and a hard place. You're influential, but probably don't have any real power. You're not a project manager, but you're on the hook for delivering. You're asked to promise dates when the best you can give is a forecast. You're long on responsibility and short on power. But you do it because it's a great job, right? There's nothing like helping your team come together to deliver actual working software.

It takes a special kind of person to be Scrum Master. You need nerves of steel, a lot of finesse, and some ridiculously great people skills. It's a lot of knowing what to look for and knowing how to fix it. Even better if you can anticipate issues and get in front of them. What can you do to help keep everything on track? How do you have the difficult conversations when things are 'sub-optimal'? From that lazy guy on your team and the Product Owner who doesn't like to estimate to you losing your mind because you're always picking up the slack; how do you help your team to solve problems and really sing? You're a good Scrum Master. Come find out how to be great.

You will learn:

- If you're technically-oriented Scrum Master, how do you help your team?
- To find the right balance between Big-Design-Up-Front, Emergent Architecture, and suicidal reckless non-planning
- To efficiently align Teams with Products

TH16 Exposing an Extensibility API for your Applications

Intermediate / Advanced

MIGUEL CASTRO

Thursday, October 19, 1:15 – 2:30pm

Writing software you can maintain is and always has been crucial, but so is writing software you can enhance and extend. It's become quite commonplace for many apps today to expose APIs so externally written apps can have access to their data or their services. But imagine how cool it is to expose an API for changing or extending an application's functionality. You can use the architecture of an application to enhance that system. This is the power of the patterns and techniques you'll learn in this session. They're very useful and very geeky, so bring your propeller hat.

You will learn:

- What is Extensibility for?
- How to Modularize your application
- Exposing an extensibility API in your application

TH20 Real World Applications for Dependency Injection

Introductory

PAUL SHERIFF

Thursday, October 19, 2:45 - 4:00pm

Understanding Dependency Injection does not have to be hard. In this session, you will learn to use DI by building components you can put to use in your applications immediately. You will see how to create a flexible configuration management system, a messaging system that can be used for error messages and even localization, and an exception management system. You will walk away with a code that you can use in your applications right away.

You will learn:

- What Dependency Injection is all about
- To use DI effectively
- Some great components you can use in your applications

"MATERIALS ARE SPOT ON AND GOOD LENGTH FOR EACH SESSION. SMALL SIZE SO VERY EASY TO GET FROM ONE SESSION TO ANOTHER AND THERE WAS NO ISSUE OF FINDING A PLACE TO SIT/ATTEND SESSIONS!"

- Eko Setiwan, Thermo Fischer Scientific

ROCK YOURCODE

SESSION DESCRIPTIONS BY TRACK (continued)

ANAHEIM

Visual Studio / .NET Framework



Visual Studio (IVE)

Microsoft continues to deliver updates to its dev tools at a rapid pace. Quarterly updates to Visual Studio and Team Foundation Server (TFS) on-premises,

and Visual Studio Team Services (VSTS) in the cloud, continue to deliver value on a regular basis. Microsoft released Team Foundation Server 2017 in November of last year and Visual Studio 2017 in March, and the Visual Studio Live! The Anaheim timeframe will be filled with updates to Visual Studio Code, cross-platform .NET Core and, most likely, the first quarterly update to TFS. The 2017 wave has tons of new features, not to mention Microsoft's continued investment into open source and cross-platform development.

Topics in this track include:

- What's new in Visual Studio 2017
- What's new in C# 7
- Async Programming
- Entity Framework Core
- Lamdas and LINQ
- Create and use Roslyn code analyzers

T04 What's New in Visual Studio 2017

Introductory / Intermediate ROBERT GREEN

Tuesday, October 17, 9:15 - 10:30am

Visual Studio 2017 is here. As always, the latest release of Visual Studio is packed with new goodies. This session will provide a whirlwind tour of what's new in Visual Studio, with a heavy focus on new productivity and language features, but also covering performance updates, improvements to mobile, UWP and cloud development tooling and the new setup experience. Come and see why you want to upgrade to this latest release as soon as you can.

You will learn:

- About the new features in Visual Studio 2017 that increase your productivity
- About the new features in Visual Studio 2017 that help you cut down on your development time
- About the new features in Visual Studio 2017 that help you write better applications

W04 What's New in C#7

Intermediate

JASON BOCK

Wednesday, October 18, 8:00 - 9:15am

C# is an open-source, mature object oriented language, used by millions of .NET developers, yet its evolution is still underway. This session will cover the latest features that have been added to C#7 and how they work in detail so you'll know when to use them effectively in your new .NET projects.

You will learn:

- How the new C#7 features work
- What the features provide to use them effectively
 Gain insight into the OSS world of C# and how one can be a part of future language evolution

W08 I'll Get Back to You: Understanding Task, Await, and Asynchronous Methods

Introductory / Intermediate

JEREMY CLARK

Wednesday, October 18, 9:30 - 10:45am

There's a lot of confusion about async/await, Task/TPL, and asynchronous and parallel programming in general. This session starts with the basics and looks at how to consume asynchronous methods using Task and then see how the "await" operator can makes things easier. Along the way, you'll also look at continuations, cancellation, and exception handling.

You will learn:

- How to consume asynchronous methods using Task (for flexibility) or await (for easy use)
- How to handle exceptions that happen in asynchronous methods
- How to request cancellation with a CancellationTokenSource

W12 Getting Started with Entity Framework Core

Introductory / Intermediate

JIM WOOLEY

Wednesday, October 18, 1:30 - 2:45pm

With the cross-platform version of .Net, Microsoft had to rewrite many of the core components you depend on. If you include data in your applications, chances are you have used Entity Framework in the past. In this session, you'll learn how to get started using EF Core and how to handle the changes in this version.

ROCK YOUR CODE

SESSION DESCRIPTIONS BY TRACK (continued)

ANAHEIM

You will learn:

Visual Studio (IVE)

- How to use the Dotnet CLI to work with Entity
 Framework Core
- How to create data models to work with Entity Framework Core
- Discover some performance benefits and gotcha's with using Entity Framework Core

W16 Improving Code Quality with Roslyn Code Analyzers

Intermediate / Advanced

JIM WOOLEY

Wednesday, October 18, 3:00 - 4:15pm

The new .Net compliers in Visual Studio 2015 can expose language services to let you build your own analyzers and code fixes/refactorings. This session will introduce you to the capabilities of the compiler platform and demonstrate how you can extend it to more proactively catch common coding smells and patterns that would have otherwise caused runtime exceptions that can be caught during compilation instead. If you've relied on third party commercial coding tools like resharper in the past, you'll see how you can build your own tooling extensions or leverage some of the many open source solutions.

This will be a hands-on hack-type session, so bring your computers and ideas for tools you would like to build. You'll start with some introductory demonstrations, but include ample time for working through some hands-on examples.

You will learn:

- How to use code analysis tools in Visual Studio 2017
- How to customize the analyzers and code styles in Visual Studio 2017
- How to build Roslyn based code fixes to detect and fix domain specific errors that the compiler can't catch

W20 Learn to Love Lambdas (and LINQ,

Too)

Introductory / Intermediate

JEREMY CLARK

Wednesday, October 18, 4:30 - 5:45pm

Lambda expressions can be confusing the first time you walk up to them. But once you get to know them, you can see they're a great addition to your toolbox. Used properly, they add elegance and simplicity to your code. And Language Integrated Query (LINQ) lends itself to lambda expressions. This session will look at what lambda expressions are, how they work, and how easy they are to use. Along the way, you'll see how we can take advantage of functional-style programming in your C# code.

You will learn:

- Lambda expression syntax
- To use captured variables for proper scoping
- How lambda expressions can help us use Language Integrated Query (LINQ) effectively
- The difference between imperative programming and declarative programming

"I LIKE THE FOCUS ON TOOLS AND TECH RELATED TO DEVELOPING IN VISUAL STUDIO SPECIFICALLY."

– Nathan Brown, Client Marketing Systems

Web Client

The browser and JavaScript provide perhaps the highest and best abstraction over every operating system, letting you build Web apps that run

across browsers, platforms and operating systems. This is possible in large part due to various JavaScript frameworks such as Angular, Aurelia, and many others. This track will arm you with the knowledge to be part of this next-generation Web app development wave based on JavaScript and HTML5:

- Angular 2
- TypeScript
- Securing Angular Apps
- A Tour of WebAssembly
- SPA apps with Aurelia and MVVM
- Practical Performance Tips
- OO for JavaScript with TypeScript
- JavaScript Tips and Tricks

T01 What's New in TypeScript?

Introductory / Intermediate

DORIS CHEN

Tuesday, October 17, 9:15 - 10:30am

TypeScript, an open source project, has seen enormous growth over the past year. Today, it is used to build several key frameworks like AngularJS, lonic, and so on. Developers are falling in love with TypeScript as they find it to be the most productive way to work with JavaScript. This session will go through how TypeScript helps you leverage

ROCK YOUR COL

SESSION DESCRIPTIONS BY TRACK (continued)

ANAHEIM

features from the current and future of JavaScript while increasing the productivity of JavaScript development across the board. As ECMAScript 6 gains popularity and more browsers are implementing the standard, JavaScript developers across the board are beginning to wonder, "What's next?" This session will cover some of the latest features of TypeScript 2.0, including future ECMAScript proposals, support for Angular and React/JSX, the state of the art type system capabilities, and how it all comes together to make working and creating things in JavaScript more productive and fun with TypeScript.

You will learn:

- Why you need to use TypeScript for your JavaScript development
- What's new in TypeScript

Visual Studio (IVE)

• How TypeScript is working well with Angular, React, and Node in Visual Studio

T05 Build Object-Oriented Enterprise Apps in JavaScript with TypeScript

Introductory / Intermediate

RACHEL APPEL

Tuesday, October 17, 10:45am - 12:00pm

TypeScript is JavaScript evolved, so if you're writing in JavaScript, TypeScript is worth checking out. Come to this session and learn all about the TypeScript language from its object oriented features to its ES6-style capabilities. You also learn how to use TypeScript's language features that makes JavaScript application-scale and more manageable language for building websites and apps as well as how to leverage TypeScript in Visual Studio.

You will learn:

- About typescript language
- About OOP in JavaScript
- Enterprise app architecture with TypeScript

T09 Angular 101: Part 1

Introductory

DEBORAH KURATA

Tuesday, October 17, 1:30 - 2:45pm

This beginner-level session introduces the .NET developer to Angular, the popular JavaScript framework for building client-side applications. In this first of two parts, you'll cover key building blocks such as modules, components, and templates. Come and get a quick start to building successful Web applications with Angular.

You will learn:

- About Angular terms and concepts
- The basics of building an Angular application
- About the Angular data binding features and syntax

T13 Angular 101: Part 2

Introductory / Intermediate

DEBORAH KURATA

Tuesday, October 17, 3:00 – 4:15pm

In the second of two parts, this session will cover the remaining key concepts in Angular including routing, services, observables (Reactive Extensions) and accessing data from a back-end server with http.

You will learn:

- About routing to navigate between pages
- About services for sharing data and operations
- About observables to managing asynchronous events

W01 I Just Met You, and "This" is Crazy, But Here's My NaN, So Call(Me), Maybe?

Introductory

RACHEL APPEL

Wednesday, October 18, 8:00 - 9:15am

This session will make light of JavaScript, but learn something by doing so. JavaScript can be a passive-

aggressive and fickle language that frustrates you at every turn. It lets you do things like declare variables anywhere, but doesn't tell you it will hoist them while you're not looking. JavaScript's 'this' keyword is anything but, and eval can turn good code to evil fast. This session blends comedy and learning, and will discuss common JavaScript headaches and mistakes and fun ways to avoid them. Learn what can trick you, like JavaScript scoping, evil Eval, and the use of the 'with' statement. All that alongside those "gotchas" is the fact not all equality operators are created equal, and innocent looking parseInt does farce parses. Sit back and dig into the fun of JavaScript language quirks.

You will learn:

- About the JavaScript language
- About JavaScript difficulties
- About functional vs procedural vs OOP development

W05 Practical Performance Tips and Tricks to Make Your HTML/ JavaScript Faster

Intermediate / Advanced

DORIS CHEN

Wednesday, October 18, 9:30 - 10:45am

How do you tackle real-world web platform performance problems in modern websites and apps? This session starts with a basic understanding of the web platform and then explores to a set of problem/solution pairs built from industry-standard performance guidance. You'll see performance tips and tricks that will help you improve the performance of your apps and sites today. The session also covers network requests, speed and responsiveness, optimizing media usage, and writing fast JavaScript. These performance tips and tricks apply equally to web sites that run on standards based web browsers, as well as to modern apps.

SESSION DESCRIPTIONS BY TRACK (continued)

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You will learn:

Visual Studio (LIVE)

- How to tackle real-world web platform performance
 problems in modern websites and apps
- Tips and tricks for developing faster HTML/JavaScript web apps
- The web performance tuning process

W09 Assembling the Web—A Tour of WebAssembly

Intermediate

JASON BOCK

Wednesday, October 18, 1:30 – 2:45pm

WebAssembly is coming to JavaScript, but what is it exactly? Is it a new VM? Is it a way to create a binary version of JavaScript? Is it a new standard to get everyone to code in C/C++ for the web? This session will demystify WebAssembly, demonstrate exactly what it is, and provide insight into how this will affect JavaScript and web development in the future.

You will learn:

- What WebAssembly is all about
- About WebAssembly in action
- · About this new aspect of web development

W13 Building Single Page Web Applications Using Aurelia.js and the MVVM Pattern

Intermediate

BEN HOELTING

Wednesday, October 18, 3:00 - 4:15pm

XAML developers love the Model-View View-Model (MVVM) pattern. Many JavaScript frameworks use this pattern for Web-based applications. They take the client side coding model developers are familiar with and provide it to the Web world. Some frameworks like AngularJS force you into certain patterns. Many have learned patterns like MVVM and want to leverage that knowledge instead of learning something new. This session will define the MVVM pattern and the benefits of using it. It will also show how you can use Aurelia and ASP.NET MVC to build responsive, robust applications that feel like desktop applications. Finally, you'll go one more step and use TypeScript and Aurelia to make developing SPAs even more productive.

You will learn:

- The MVVM Pattern, JavaScript frameworks that enable the MVVM Pattern for the Web
- How to wire up Aurelia, TypeScript, and ASP.NET MVC

W17 Securing Angular Apps

Introductory / Intermediate

BRIAN NOYES

Wednesday, October 18, 4:30 - 5:45pm

One topic often pushed to the side when talking about Angular apps is security. The short answer is "you can't secure the client side." However, the reality is you still need to secure your application as a whole. In this session, you will learn about what you can and can't do with security in Angular, and how you can protect the application as a whole with a combination of securing the files that compose your application, providing a good user experience for login and authorization in your client side app, and securing the Web API calls that your Angular app depends on to access the sensitive parts of your application-the data. You'll also learn about other aspects of security that the client side has to participate in, including CSRF/XSRF, XSS, and CORS. You'll learn all this primarily in the context of using ASP.NET for your back end, and you'll see how to leverage Angular constructs such as guards and service components, and managing the Http service to get your auth token added to your back-end calls.

You will learn:

- What parts of your Angular App you can secure and how
- How to work with secured Web APIs in your SPAHow to manage CSRF and CORS

Web Server

ASP.NET has been Microsoft's core Web development platform since 2002. Starting with Web Forms at the very beginning, then morphing into MVC and

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ASP.NET Web Pages, it has been quite a ride. And just when you thought you knew the ropes, along comes ASP.NET Core 1.0, which represents a change comparable in magnitude to the move from classic Active Server Pages to ASP.NET in the first place.

The Visual Studio Live! ASP.NET track covers all this and more. Come take in the content, to get current and stay that way, with topics including:

- ASP.NET Core MVC
- Better Authorization with ASP.NET Core
- Getting started with Web API
- Cortana and your Server
- Security Web and Web API Apps

TH01 ASP.NET Core MVC—What You Need to Know

Intermediate

PHILIP JAPIKSE

Thursday, October 19, 8:00 – 9:15am

Core MVC has changed in "revolutionary ways." This session will show you what you need to know to move to ASP.NET Core MVC for Web UI and RESTful services.

You will learn:

- The new MVC features such as tag helpers and view components
- About using DI with MVC
- How to create RESTful services with Core MVC

SESSION DESCRIPTIONS BY TRACK (continued)

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TH05 Role-Based Security Stinks: How to Implement Better Authorization in ASP.NET and ASP.NET Core

Advanced

BENJAMIN DAY

Visual Studio (IVE)

Thursday, October 19, 9:30 - 10:45am

In .NET, if your user permissions are simple, you're in luck. Access the IPrincipal for the current user, call IsInRole(), and you're done in about three lines of code. It works great—until it doesn't and then you're hosed. When your application's user permissions model starts getting complicated, you'll instantly run into problems with .NET's role-based security. The good thing is it's not that hard to write your own custom authorization system.

This session will start by discussing role-based security and what its limits are in a typical ASP.NET or WebAPI application. From there, it will cover going "off road" to talk about how to design, build, and test custom authorization schemes that handle more complex authorization scenarios. Along the way, you'll learn how to handle tricky details like user administration, creating arbitrary logical groupings of items and users, load testing your security code, and (most importantly) how to make all this code maintainable in the long term.

You will learn:

- About Ildentity, IPrincipal, and role-based security
- About claims-based authentication
- · How to implement a custom IPrincipal
- How to implement a generic maintainable authorization system for an ASP.NET MVC & WebAPI app
- How it all changes with ASP.NET Core

TH09 From Zero to the Web API

Introductory

PAUL SHERIFF

Thursday, October 19, 11:00am - 12:15pm

The Web API is becoming a requirement for developers to use to build web applications. Whether you use Angular, jQuery, React or other JavaScript framework, to interact with data, you need the Web API. If you have not looked at using the Web API yet, then this seminar is for you. You will learn step-by-step how to get, post, put and delete data using the Web API. Using C# and a little jQuery/Angular is all you need to start your process on becoming a clientside web developer.

You will learn:

- The basics of the Web API
- How to use GET, PUT, POST and DELETE
- How to use jQuery/Angular to call Web API

TH13 Cortana Everywhere: Speech, Conversation & Skills Development

Intermediate / Advanced

NICK LANDRY

Thursday, October 19, 1:15 - 2:30pm

Personal computing has evolved from operating systems to internet browsers being the runtime where users find and engage with applications and services. In the new world of AI, digital personal assistants will be the new context aware runtime, connecting consumers to the right experiences at the right time. In Windows 10, Cortana is evolving from reminding users about things to helping them get things done. Cortana is now available everywhere, on any device and in any app. It can proactively surface your app to users in the right context, and provide your app with relevant information to act on, making it quick and easy for the user to work with your app, or even complete tasks on the user's behalf, and you can call Cortana directly in the cloud from any app or device. This session will walk through developing Cortana Skills, and how your existing apps—with minimal effort—can use in the cloud them to increase engagement and discovery.

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You will learn:

- Understand common mobile scenarios that can benefit from hands-free voice interactions
- How to use the Windows Speech SDK and how to implement support for voice commands and in-app recognition in Windows 10 applications
- How to design custom grammars for advanced voice recognition scenarios

TH17 Securing Web Apps and APIs with IdentityServer

Introductory / Intermediate

BRIAN NOYES

Thursday, October 19, 2:45 - 4:00pm

IdentityServer is an open source framework for building authorization servers that support a bunch of different authentication and authorization protocols, most importantly OAuth, OpenID Connect, and ADFS. In this session, you will learn about IdentityServer capabilities, how to set up IdentityServer to support a single ASP. NET Web Site or Web API, or to set it up as a central authentication server enabling Single Sign On (SSO) from all your client apps.

You will learn:

- How to set up and configure IdentityServer as a Single Sign On authentication server
- How to set up authentication and authorization in your Web APIs and MVC pages based on an IdentityServer sign in and access control tokens
- What the options are for different degrees of authorization logic in your apps

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Andrew Brust

Visual Studio (IVE)

Senior Director, Market Strategy and Intelligence, Datameer Visual Studio Live! Conference Co-Chair



Andrew Brust is Senior Director, Market Strategy and Intelligence at Datameer and writes for ZDNet's "Big on Data" blog. Andrew is co-author of Programming Microsoft SQL Server 2012 (Microsoft Press); has several Pluralsight courses on Big Data

and NoSQL, serves as Microsoft Regional Director and is a Microsoft Data Platform MVP.

Michael Desmond

Editor in Chief, MSDN Magazine



Michael Desmond is editor in chief of MSDN Magazine, Microsoft's flagship publication for software developers working with Microsoft tools and technologies. A 20-year veteran in IT and technology publishing, Desmond was an editor at PC World

magazine for six years before launching an editorial consultancy that did work for leading technology firms like IBM, Intel and Sun Microsystems.

Rockford Lhotka

CTO, Magenic Visual Studio Live! Conference Co-Chair



Rockford Lhotka is the CTO of Magenic, and is the creator of the widely used CSLA .NET development framework. He is the author of numerous books on software development, and regularly speaks at major conferences around the world. Rockford is a Microsoft

Regional Director and MVP. Magenic (magenic.com) is a company that specializes in planning, designing, building and maintaining your enterprise's most mission critical systems. For more information, go to lhotka.net.

Lafe Low

Editor, Visual Studio Live!



Lafe Low has been a technology editor and writer for more than 25 years. Most recently, he was the editor in chief of TechNet magazine. He has also held various editorial positions with Redmond magazine, CIO magazine and InfoWorld. He also launched

his own magazine entitled Explore New England, and has published four editions of his guidebook The Best in Tent Camping: New England.

Brian Randell

Partner, MCW Technologies Visual Studio Live! Conference Co-Chair



Brian A. Randell is a Partner with MCW Technologies LLC. For more than 20 years he has been building software solutions. He educates teams on Microsoft technologies via writing and training—both in-person and on demand. He's also a consultant for

companies small and large, worldwide, including Fortune 100 companies like Microsoft. Brian is a passionate software craftsman who still enjoys coding as he helps teams to improve their processes from idea to shipping to production management and monitoring. In addition, he's become obsessed over the last few years with natural user interfaces and how to create compelling user experiences regardless of platform. In early 2010, he toured the world prepping Microsoft employees and Microsoft partners for the Microsoft Visual Studio 2010 launch. In 2012, he and his team built some of the first training content and demos for Microsoft using Visual Studio 2012, Team Foundation Server 2012, and Windows 8. For the 2013 release, he continued building new ALM content for use worldwide by Microsoft. He's currently a Visual Studio ALM MVP and co-author of "Professional Application Lifecycle Management with Visual Studio 2013" from Wrox Publishing. When not working, Brian enjoys spending time with his wife and two children who enjoy making him look bad on the Xbox One (with and without Kinect).

"THE AMOUNT OF INFORMATION AND VARIOUS TECHNOLOGIES THAT WERE PRESENTED. ALSO, ALL OF THE SPEAKERS' ENTHUSIASM FOR THE TOPICS THEY EACH ADDRESSED."

- Richard Williams, Janas Fitness

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CONFERENCE SPEAKERS

Nedra Allmond

Visual Studio (IVE)

SharePoint Business Analyst, ExecuComp Services LLC



Nedra Allmond has been working with SharePoint since 2006 and been in the IT industry for over 15 years. She is a MCTS whose background includes working with the Department of Defense, the aerospace, entertainment, legal, and biotech industry,

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as well as non-profit organizations. She has been described as a User Advocate. Nedra was co-chair for SharePoint Saturday Los Angeles and has been a speaker for numerous SPS Events and is a co-founder of the San Fernando Valley SharePoint Users Group. She has served Women in SharePoint - National Board, West Regional President / Board Member, and Los Angeles Chapter President / Board Member.

Rachel Appel

Senior Developer Evangelist, Microsoft



Rachel is a consultant, author, mentor, and Microsoft employee with over 20 years in the IT industry who speaks at top industry conferences such as Visual Studio Live!, Live! 360, and MIX. During her career, Rachel has worked on projects of all sizes from the

smallest of apps to the largest enterprise systems at some of the world's leading companies. Rachel's expertise lies within developing solutions that align business and technology, focusing on In frameworks, languages, databases, software practices, and more.

Jason Bock

Practice Lead, Magenic



Jason Bock is a Practice Lead for Magenic (http://www.magenic.com) and a Microsoft MVP (C#). He has worked on a number of business applications using a diverse set of substrates and languages such as C#, .NET, and Java. He is the author of

"Metaprogramming in .NET", "Applied .NET Attributes", and "CIL Programming: Under the Hood of .NET". He has

written numerous articles on software development issues and has presented at a number of conferences and user groups. He is a leader of the Twin Cities Code Camp (http://www.twincitiescodecamp.com). Jason holds a Master's degree in Electrical Engineering from Marquette University. Visit his web site at http://www.jasonbock.net.

Eric D. Boyd

Founder and CEO, responsiveX



Eric D. Boyd is the Founder and CEO of responsiveX, a Windows Azure MVP, and a regular speaker at national conferences, regional code camps and local user groups. He is so passionate about apps and cloud services that he founded responsiveX (www.

responsiveX.com), a management and technology consultancy that helps customers create great web, mobile and client experiences, and these apps are often powered by cloud services. Eric launched his technology career almost two decades ago with a web development startup and has served in multiple roles since including developer, consultant, technology executive and business owner. You can find Eric blogging at http://www.EricDBoyd.com and on Twitter at http://twitter.com/EricDBoyd.

Miguel Castro

Principal Consultant, Melvicorp LLC



Whether playing on the local Radio Shack's TRS-80 or designing systems for clients around the globe, Miguel has been writing software since he was 12 years old. He insists on staying heavily involved and up-to-date on all aspects of software application design

& development, and projects that diversity onto the type of training and consulting he provides to his customers and believes that it's never just about understand the technologies, but how technologies work together. In fact, it is on this concept that Miguel based two of his Pluralsight courses, Building End-to-End Multi-Client Service Oriented Applications, which was #1 for several weeks, and Developing Extensible Sotware. Miguel is a Microsoft MVP since 2005 and when he's not consulting or training, Miguel speaks at conferences around the world, practices combining on-stage tech and comedy, and never misses a Formula 1 race. But best of all, he's the proud father of a very tech-savvy 10-year-old girl, and a proud husband to the woman that homeschools her.

Doris Chen

Senior Developer Evangelist, Microsoft



Doris has over 18 years of experience in the software industry working in several open source web tier technologies, Java platform, .NET and distributed computing technologies. She speaks at numerous international conferences and user groups

including OSCON, Fluent, Dev Nexus, PHP, WebVisions, JavaOne, SD Forum, and worldwide User Groups. Doris works very closely to create and foster the open source community around Java, NetBeans, Glassfish, and related technologies. Before joining Microsoft, Doris Chen was a Technology Evangelist at Sun Microsystems.

Doris received her Ph.D. from the University of California at Los Angeles (UCLA) in computer engineering, specializing in medical informatics.

Jeremy Clark

Consultant, Speaker & Mentor, JeremyBytes.com



Jeremy Clark makes developers better. By drawing on over 15 years of experience in application development, he helps developers take a step up in their skillset with a focus on making complex topics approachable regardless of skill level. He is a

Microsoft MVP for .NET, and he has authored seven courses for Pluralsight, including "C# Interfaces", a course aimed at giving developers a clear understanding of abstraction. Jeremy lives in Southern California with 2 cats and a banjo. For more information, visit www.jeremybytes.com.

CONFERENCE SPEAKERS (continued)

Benjamin Day

Visual Studio (IVE)

Consultant & Trainer, Benjamin Day Consulting, Inc.



Benjamin Day is a consultant and trainer specializing in software best practices using Microsoft tools. Ben's main areas of emphasis include Team Foundation Server, Scrum, software testing, and software architecture. He is a Microsoft Visual Studio

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ALM MVP, a certified Scrum trainer via Scrum.org, and a speaker at conferences such as TechEd and Visual Studio Live! When not developing software, Ben's been known to go running and sea kayaking in order to balance out his love of cheese, cured meats, and champagne. He can be contacted via www.benday.com.

Robert Green

Technical Evangelist, Microsoft



Robert Green is a Technical Evangelist in the Developer & Platform Evangelism (DPE) group at Microsoft. He focuses on Visual Studio and Windows 8 enterprise development. Robert is the host of the Visual Studio Toolbox show on Channel 9.

This is his second stint at Microsoft. From 2005 to 2010 he was a Sr. Consultant with MCW Technologies, focused on developer training. He authored or co-authored a number of Visual Studio and .NET courses for AppDev. Prior to that, in his first stint at Microsoft, he worked in Developer Tools marketing and then as the Community Lead on the Visual Basic team.

Ben Hoelting

Director of Technology, Aspenware



Director of Technology for Aspenware, C# MVP and Telerik Insider. He graduated from Colorado State University in 1997 with a BS in Computer Information Systems and a Minor in Computer Science. Ben joined the IT industry in 1996 as an intern and has

worked with .NET since its inception back in 2002. Over the last few years he has done some work for the Department of Defense. He left the government world and now works for Aspenware in Denver. His most recent projects include a XAML line of business application that uses the ADO.NET Entity Framework to access the backend data store. He also is working on an MS Office automation project as well as geospatial ASP.NET MVC website. Ben is a Microsoft Certified Technology Specialist (MCTS) for Web and Windows .NET 4.0. His blog is at http://www.benhblog.com and his twitter stream is at http://twitter.com/benhnet. Finally, Ben is very involved in the local .NET community and is the leader of the South Colorado .NET User Group.

Billy Hollis Next Version Systems



Billy Hollis is an author and software developer from Nashville, Tennessee. Billy is co-author of the first book ever published on Visual Basic .NET, VB .NET Programming on the Public Beta. He has written many articles, and is a frequent speaker at

conferences. He is the Regional Director of Developer Relations in Nashville for Microsoft, and runs a consulting company focusing on Microsoft.NET. You can visit his website at: www.billyhollis.com.

Tim Huckaby

Founder / Chairman - InterKnowlogy & Actus Interactive Software



Tim Huckaby is an industry luminary focused on Emerging User Experiences, User Interaction Design and the Natural User Interface (NUI). Mr. Huckaby has over 35 years of technology experience including serving on a server product team as a

development lead on an architecture team at Microsoft. Mr. Huckaby worked on some famous and not so famous Microsoft Server products in the late nineties. Mr. Huckaby is a Microsoft Global RD, a Microsoft MVP and serves on many councils and boards like the Microsoft Application Development Partner Advisory Council. Mr. Huckaby has been awarded many times for the highest rated technical & industry presentations and keynotes for Microsoft and many other vertical & technology conferences like CES and events all around the world. Mr. Huckaby is consistently rated in the top 10% of all speakers at these events. Having worked for or with Microsoft for over 25 years, Mr. Huckaby has been on stage with, and done numerous keynote demos for many Microsoft executives including Bill Gates and Steve Ballmer. Mr. Huckaby has been published thousands of times including authoring 3 books and hundreds of magazine articles. Mr. Huckaby works directly with the Technology Press on messaging and industry comprehension. Mr. Huckaby's expertise encompasses Emerging Experiences as Touch, Gesture, Voice Recognition, AR&VR, Holographic, Neural, Demographic, Emotional, & Facial Recognition and other futuristic interfaces as applied by a number of compelling software technologies on many hardware platforms on a broad spectrum of devices. Mr. Huckaby was deemed a "Pioneer of the Smart Client Revolution" by the press. Mr. Huckaby's uncanny prediction of locally installed, native application dominance (ie: Apps) in spite of a web application popularity became true. This prediction of "The Smart Client Revolution" was the predecessor to the app store phenomena we see today where applications are downloaded from an application store and installed natively on the device as contrasted to using web applications in a browser. In 1999 Mr. Huckaby founded InterKnowlogy, a custom application development firm; a think tank of makers who create for all digital surfaces. IK continues to flourish close to twenty years later. In 2011 Mr. Huckaby founded Actus Interactive Software, which licenses a suite of Interactive Digital Signage products. In 2015 Mr. Huckaby founded VSBLTY, which provides a refrigerator/freezer solution for grocery stores. C-Stores and others that features doors, which are transparent HD capable touch screens. Among many features, the solution produces content based on a demographic profile or facial recognition and gathers the analytics of the consumers that walk into its range. The security version of this Digital Signage product can do facial recognition with over 90% accuracy, scaling to 250 million in the database, with 3 ms response times. Both Actus and VSBLTY were created as a product company compliments to InterKnowlogy. Mr. Huckaby is a founder of all three companies and serves each of them as Executive Chairman.

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CONFERENCE SPEAKERS (continued)

Philip Japikse

Visual Studio (LIVE)

Principal Software Engineer, Strategic Data Systems, Inc.



A Principal Software Engineer with Strategic Data Systems (http://www.sds-consulting. com), international speaker, Microsoft MVP, ASPInsider, MCSD, CSM, and CSP, and a passionate member of the developer community, Phil Japikse has been working

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with .NET since the first betas, developing software for over 30 years, and heavily involved in the agile community since 2005. Phil is the Lead Director for the Cincinnati .NET User's Group (www.cinnug.org) and the Cincinnati Software Architect Group, co-hosts the Hallway Conversations podcast (www.hallwayconversations.com), founded the Cincinnati Day of Agile (www.dayofagile.org), and volunteers for the National Ski Patrol. Phil enjoys to continuously learn new tech and is always striving to improving his craft. You can follow Phil on twitter via www. twitter.com/skimedic and read his blog at www.skimedic. com/blog.

Steve Jones

Editor, Data Platform MVP, MCSE, BA, SQLServerCentral



Steve Jones has been working in technology for over 25 years in a variety of industries as a developer, DBA, and IT manager. He has worked with SQL Server since 1991 and has been recognized by Microsoft as a Data Platform MVP for the past 8 years.

Raj Krishnan

Technology Architect, Microsoft



Raj Krishnan has been with Microsoft over 14 years during which he has worked as a Technology Evangelist in Healthcare and as an Architect at Microsoft Technology Center. Currently he works as the Azure Cloud Solution Architect helping customers build

and deploy web applications in Azure. He has deep and diverse experience in most of the technologies including .NET, JavaScript development, SharePoint, Azure and Analytics. Prior to joining Microsoft, he has worked for Fortune 500 companies, Big Five Consulting and start-ups. He is also an adjunct professor in Illinois where he teaches web application development. Raj has been focusing, on Big Data projects for the last two years, teaches Data Warehouse at IIT Chicago as an adjunct professor, and presents on Data Science topics at Microsoft.

Deborah Kurata

President, InStep Technologies, Inc.



Deborah Kurata is cofounder of InStep Technologies Inc., a professional consulting firm that focuses on turning your business vision into reality using Microsoft .NET technologies. She has over 15 years of experience in architecting, designing, and developing

successful applications. Deborah has authored several books, including the "Doing Objects in Visual Basic" series (Addison-Wesley), "Best Kept Secrets in .NET" (Apress) and "Doing Web Development: Client-Side Techniques" (Apress). Deborah speaks at conferences such as Visual Studio Live!, DevDays, and TechEd. For her work in support of software development and software developers, she has been recognized with the Microsoft Most Valuable Professional (MVP) award. After a hard day of coding and taking care of her family, Deborah enjoys blowing stuff up (on the XBox of course).

Nick Landry

Senior Technical Evangelist, Microsoft



Nick Landry (@ActiveNick) is a mobility pioneer specializing in the design and production of mobile applications for consumers and the enterprise using diverse cross-platform technologies including Windows Phone, Windows 8, iOS, Android, Mobile Web, Xamarin

and PhoneGap. Nick works at Microsoft as a Senior Technical Evangelist in the New York Metro area and engages with developers, students and IT pros to help them learn, adopt and use the Microsoft developer platform to design and build the next generation of apps for Windows Phone, Windows 8 and Windows Azure. Nick is also a Nokia Developer Ambassador whose mandate is to educate and support Windows Phone developers to maximize their success. Prior to joining Microsoft, Nick spent almost two years as a Senior Product Manager for mobile, data visualization and geospatial developer tools across multiple technologies and platforms. He previously spent most his career in IT consulting and services organizations across various technical and business roles, designing, building, managing and selling innovative software solutions for some of the world's top brands and Fortune 500 companies. Known for his dynamic and engaging style, he is a frequent speaker at major software development conferences worldwide like Visual Studio Live!, CodePalousa, Prairie DevCon, HDC, DevTeach, Xamarin Evolve, TechEd, and others. Nick was a 10-year Microsoft MVP awarded on Windows Phone Development, and is a Nokia Developer Champion. With over 20 years of professional experience, Nick is a developer and software architect by trade and specializes in Cross-Platform Mobility, Location Intelligence & Geospatial development, Data Visualization, Cloud Computing and Mobile Game Development. He authored multiple technical magazine articles, white papers, and mobility courses, has been a technical editor for IT books, and holds several professional certifications. Blog: www.AgeofMobility.com - LinkedIn: www. linkedin.com/in/activenick

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Vishwas Lele CTO, AIS



Vishwas Lele is an AIS Chief Technology Officer and is responsible for the company vision and execution of creating business solutions using .NET technologies. Vishwas brings close to 20 years of experience and thought leadership to his position, and has been at AIS for 13 years. A

noted industry speaker and author, Vishwas is the Microsoft Regional Director for the Washington, D.C. area and a member of the Connected Systems Division Advisors group. Additionally, Vishwas has received an MVP (Most Valuable Professional) for Solution Architecture award for 2009.

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CONFERENCE SPEAKERS (continued)

Rockford Lhotka

Visual Studio (IVE)

CTO, Magenic Visual Studio Live! Conference Co-Chair



Rockford Lhotka is the CTO of Magenic, and is the creator of the widely used CSLA .NET development framework. He is the author of numerous books on software development, and regularly speaks at major conferences around the world. Rockford is a Microsoft Regional

Director and MVP. Magenic (magenic.com) is a company that specializes in planning, designing, building and maintaining your enterprise's most mission critical systems. For more information, go to lhotka.net.

Leonard Lobel

CTO, Sleek Technologies, Inc.



Leonard Lobel is the chief technology officer (CTO) and co-founder of Sleek Technologies, Inc., a New York-based development shop with an early adopter philosophy toward new technologies that services organizations ranging from small shops to high-profile clients.

He is also a principal consultant at Tallan, Inc., a Microsoft Gold Certified Partner. Programming since 1979, Lenni specializes in Microsoft-based solutions, with experience that spans a variety of business domains, including publishing, financial, wholesale/ retail, health care, and e-commerce. Lenni is also a Microsoft MVP for SQL Server, lead author of the MS Press book "Programming Microsoft SQL Server 2008" (currently being updated for SQL Server 2012), consultant, trainer, and frequent speaker at local user group meetings, Visual Studio Live!, SQL PASS, and other industry conferences. He can be reached at lenni.lobel@sleektech.com.

James Montemagno

Developer Evangelist, Xamarin



James Montemagno is a Developer Evangelist at Xamarin. He has been a .NET developer for over a decade working in a wide range of industries including game development, printer software, and web services. Prior to becoming a Developer

Evangelist, James was a professional mobile developer on the Xamarin platform for over 3 years, with several published apps on iOS, Android, and Windows. In his spare time he is most likely cycling around Seattle or guzzling gallons of coffee at a local coffee shop. He can be found on Twitter @JamesMontemagno and blogs code regularly on his personal blog www.MotzCod.es

Ted Neward

Director, Developer Relations, Smartsheet.com



Ted Neward is a programming language, virtual machine, and enterprise-scale architect. He has written a dozen books and hundreds of articles on .NET, Java, enterprise systems, mobile development, and programming languages. He resides in the

Pacific Northwest, and can be found on the Internet at www.tedneward.com, www.itrellis.com, @tedneward on Twitter, and blogs at blogs.tedneward.com.

Brian Noyes CTO, Solliance



Brian Noyes is CTO and Architect at Solliance. Brian is a Microsoft Regional Director and MVP, and specializes in rich client technologies including XAML and HTML 5, as well as building the services that back them with WCF and ASP.NET Web API.

Brian has authored several books including Developer's Guide to Microsoft Prism 4, Data Binding with Windows Forms 2.0, and Smart Client Deployment with ClickOnce. He publishes articles frequently in a variety of publications and speaks at conferences worldwide including Microsoft TechEd, Visual Studio Live!, DevTeach, and others. Brian got started programming as a hobby while flying F-14 Tomcats in the U.S. Navy, later turning his passion for software into his current career. You can follow Brian through his blog at http://briannoyes.net and Twitter @briannoyes.

Brian Randell

Partner, MCW Technologies Visual Studio Live! Conference Co-Chair



Brian A. Randell is a Partner with MCW Technologies LLC. For more than 20 years he has been building software solutions. He educates teams on Microsoft technologies via writing and training—both in-person and on demand. He's also a consultant for

companies small and large, worldwide, including Fortune 100 companies like Microsoft. Brian is a passionate software craftsman who still enjoys coding as he helps teams to improve their processes from idea to shipping to production management and monitoring. In addition, he's become obsessed over the last few years with natural user interfaces and how to create compelling user experiences regardless of platform. In early 2010, he toured the world prepping Microsoft employees and Microsoft partners for the Microsoft Visual Studio 2010 launch. In 2012, he and his team built some of the first training content and demos for Microsoft using Visual Studio 2012, Team Foundation Server 2012, and Windows 8. For the 2013 release, he continued building new ALM content for use worldwide by Microsoft. He's currently a Visual Studio ALM MVP and co-author of "Professional Application Lifecycle Management with Visual Studio 2013" from Wrox Publishing. When not working, Brian enjoys spending time with his wife and two children who enjoy making him look bad on the Xbox One (with and without Kinect).



Paul Sheriff

Visual Studio (IVE)

Business Solutions Architect, Fairway Technologies, Inc.



Paul has over thirty years of experience architecting information systems and his expertise is in much demand from companies such as Kawasaki, Sunkist, Microsoft, Rockwell, American Express, J.D. Powers & Associates and many others. Paul

helps companies architect .NET and Web applications, and create application frameworks.

Over the years, Paul has written over 305 articles and authored 14 books. Paul covers development topics ranging from C#, Angular, SQL Server, and many .NET technologies. Paul has been a popular speaker at many different conferences and user groups around the world for over 25 years. Reach Paul via email at PSheriff@ fairwaytech.com. Follow Paul at @pdsainc and facebook. com/PDSAinc

Jim Szubryt

Tech Arch Senior Manager, Accenture



Jim Szubryt has been working in the Application Lifecycle Management (ALM) space since 2006. He has been a Microsoft ALM Ranger since 2011, a Microsoft ALM MVP since 2013 and has spoken at national conferences on ALM/DevOps topics. Jim's

role at Accenture has overseen the adoption of ALM and DevOps practices that has transformed how internal IT delivers the business goals of a \$30 billion-dollar company.

Adam Tuliper

ANAHEIM

Principal Software Engineer, DX, Microsoft

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Adam is a Principal Software Engineer for Microsoft's Developer Experience division (DX). Adam lives in Southern California and helps others realize their technical vision across the web, gaming, cloud, phone, console, and desktop platforms. He is

heavily addicted to his HoloLens, .NET Core, bots, Unity, and most .NET based technologies. He co-runs the Orange County Unity meetup. Prior to Microsoft he worked as a software architect in defense, finance, pharma, manufacturing, technology, and public sector fields over a span of 20+ years. He presents nationwide at conferences such as //build & GDC, loves speaking at user groups and universities, is a pluralsight.com author and an MSDN Magazine author. Catch him on twitter @AdamTuliper

Jim Wooley Solution Architect, Slalom



By day, Jim Wooley is a Solution Architect for Slalom Consulting. In his free time, Jim is a frequent speaker, MVP, and author of "LINQ in Action". He is always striving to stay at the forefront of technology and enjoys the thrill of a new challenge. He has been

active evangelizing LINQ since its announcement in 2005. In addition, he attempts to pass on the insights he has gained by being active in the community, including organizing and speaking at code camps and regional events, including MIX, Visual Studio Live!, CodeMash, KCDC, That Conference, DevWeek, and CodeStock.



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.NET Developers Association

The .NET Developers Association is an Eastside community oriented group aimed at furthering the education of .NET developers. www.meetup.com/NET-Developers-Association/



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Windows Developer User Group

The Windows Developer User Group has been established to nurture knowledge base and collaboration among Windows Phone & Windows 8 application developers & enthusiasts. While we are primarily based in Columbus OH, developers from all around Ohio, neighboring states and just about anybody who has interest in the Microsoft ecosystem, is most welcome. www.meetup.com/windowsdevug/

EXHIBITOR



Fast Reports

Founded in 1998, Fast Reports is known for its state-of-art reporting software applications, libraries and add-ons that guarantee fast reporting for developers of the business software. The company has websites in 10 different languages to cater its global audience. The products are localized to more than 40 languages. Operations are spread across America and Europe. www.fast-report.com/en/

"THE ABILITY TO CONVERSE WITH OTHER DEVELOPERS AND IT PROFESSIONALS IS EASILY THE BEST PART; AND VALUE OF THE WEEK."

– Corbin Phillips, Lowen Corp.

Please check vslive.com/anaheim for the growing list of sponsors and partners for the event.

VENUE & TRAVEL

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For more travel information, visit the Visual Studio Live! Anaheim Travel Page.

VISUAL STUDIO LIVE! (VSLIVE!™) HEADS BACK TO SOUTHERN CALIFORNIA FOR FOUR DAYS OF SUN, FUN, AND INTENSE DEVELOPER TRAINING.

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Our host hotel, the Hyatt Regency Orange County, is located just blocks from the Disneyland[®] Resort, and a short drive to Angel Stadium or "The OC" beaches. Code by day and enjoy all that Anaheim has to offer at night!

Hyatt Regency Orange County, A Disneyland[®] Good Neighbor Hotel

11999 Harbor Boulevard Garden Grove, CA 92840

Special attendee rate: \$185*

Book by: September 28, 2017

Book your room online; or call Reservations at 888.591.1234 and ask for the Visual Studio Live! Room Block. The offer is subject to room availability, so make sure to book early. Hyatt Regency Orange County rooms booked within the Visual Studio Live! room block include complimentary standard in-room internet access.

Travel

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AIRPORTS / SHUTTLES

John Wayne/Orange County Airport (SNA): Distance: 13 miles from SNA to the Hyatt Regency OC; Super Shuttle: \$11 per person/one way Disneyland[®] Resort Express Bus: \$20 per person/from hotel to airport only

Los Angeles International Airport (LAX): Distance: 35 miles from LAX to the Hyatt Regency OC; Super Shuttle: \$17 per person/one way

Disneyland® Resort Express Bus: \$30 per person/from hotel to airport only

Long Beach Airport (LGB): Distance: 18 miles from LGB to the Hyatt Regency OC; Super Shuttle: \$36 for the first person + \$9 each additional person/one way.

AVIS RENT-A-CAR is offering a discount on car rental for Visual Studio Live! Anaheim attendees. To receive the discounted rates, call Avis at 800.331.1600 and use the Avis Worldwide Discount (AWD) number D005872.

PARKING FOR THE HYATT REGENCY ORANGE COUNTY

Self-Parking / Valet: \$24.00 (daily maximum / over night) Parking rates are subject to change without notice.

Disneyland[®]

SHUTTLE SERVICE TO DISNEYLAND®

The Hyatt Regency Orange County offers Disneyland[®] Resort shuttle transportation to and from the theme parks, with departure every half hour. The cost is \$5 per person per day, ages 4-10 are \$2 per day, and kids 3 & under are free. The Hyatt Regency Orange County is close to the Anaheim Convention Center and SNA OC Airport and offers taxi service.

*The \$185.00 room rate is based on single or double occupancy and excludes applicable state and local taxes..

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REGISTRATION PACKAGES

SIGN UP for the conference package that best meets your schedule and needs!

Register now at www.vslive.com/anaheim

Visual Studio (LIVE)

Signing up 3 or more? Group Discounts are available! See page 35 for details. Are you a Visual Studio Live! or Live! 360 alumnus? Alumni discounts are available! See page 36 for details.

VISUAL STUDIO LIVE! 4-DAY CONFERENCE PACKAGE

The Visual Studio Live! Anaheim 4-Day Package is your four day all-access pass to every keynote, session, workshop	SUPER EARLY BIRD THROUGH AUGUST 25, 2017	EARLY BIRD THROUGH SEPT 22, 2017	STANDARD THROUGH OCTOBER 16, 2017
and event October 16-19, 2017. VISUAL STUDIO LIVE! 4-DAY	\$1,895	\$1,995	\$2,195
 PACKAGE INCLUDES: All Sessions and Keynotes Pre-conference workshops Reception Networking Events Lunch (October 16-19) Laptop Computer Bag T-shirt with Completed Survey Online access to all course notes and sample code 	Save \$300	Save \$200	

Add the Hotel package to your Visual Studio Live! Anaheim 4-Day Conference Package

The Visual Studio Live! Anaheim 4-Day Hotel Package includes four nights at the Hyatt Regency Orange County—*available Sunday night (October 15) through Wednesday night (October 18), departing Thursday (October 19).*

4-Day Hotel Package: \$900



REGISTRATION PACKAGES (continued)

Visual Studio (IVE)

Signing up 3 or more? Group Discounts are available! See page 35 for details. Are you a Visual Studio Live! or Live! 360 alumnus? Alumni discounts are available! See page 36 for details.

VISUAL STUDIO LIVE! 3-DAY CONFERENCE PACKAGE

The Visual Studio Live! Anaheim 3-Day Package is your three day all-access pass to every keynote, session and	SUPER EARLY BIRD THROUGH AUGUST 25, 2017	EARLY BIRD THROUGH SEPT 22, 2017	STANDARD THROUGH OCTOBER 16, 2017
event October 17-19, 2017. VISUAL STUDIO LIVE! 3-DAY	\$1,495	\$1,595	\$1,895
All Sessions and Keynotes	Save \$400	Save \$300	
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Laptop Computer Bag T-shirt with Completed Survey			
 Online access to all course notes and sample code 			

Add the Hotel package to your Visual Studio Live! 3-Day Conference Package

The Visual Studio Live! Anaheim 3-Day Hotel Package includes three nights at the Hyatt Regency Orange County—*available Monday night (October 16) through Wednesday night (October 18), departing Thursday (October 19).*

3-Day Hotel Package: \$675

WORKSHOP PASS (1 DAY)

The Visual Studio Live! Anaheim Workshop Pass grants you access to one full-day workshop on Monday, October 16, 2017. STANDARD THROUGH OCTOBER 16, 2017

\$550

REGISTRATION PACKAGES (continued)

Are you a Visual Studio Live! or Live! 360 alumnus? Alumni discounts are available! See page 36 for details.

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GROUP DISCOUNTS FOR YOU + 2

Visual Studio (LIVE)

For questions or to register your group, please call 972.304.5380

VISUAL STUDIO LIVE! 4-DAY GROUP PACKAGE

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The Visual Studio Live! Anaheim 4-Day Group Package is for groups of 3 or more attendees from the same company registering for the 4-Day Conference Package.

VISUAL STUDIO LIVE! 4-DAY GROUP PACKAGE INCLUDES:

- All Sessions and Keynotes
- Pre-conference workshops
- Reception
- Networking Events
- Lunch (October 16-19)
- Laptop Computer Bag
- T-shirt with Completed Survey
- Online access to all course notes and sample code

THROUGH OCT 16, 2017 \$1,695

GROUP PRICING

OCT 16-19, 2017

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HYATT REGENCY

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4-Day Hotel Package: \$900

REGISTRATION PACKAGES (continued)

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4-Day Hotel Package: \$900

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, workshop and event October 2017.	\$1,495	\$1,595	\$1,795
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