Visual Studio® LIVE!

EXPERT SOLUTIONS FOR .NET DEVELOPERS

August 13 – 17, 2018
Redmond, WA

Microsoft
Headquarters

Yesterday's Knowledge, Tomorrow's Code

#VSLIVE25

Visual Studio LIVE!
25
YEARS OF CODING INNOVATION
1993 - 2018

VSLive! 1997

VSLive! 2017

vslive.com/redmond

TRACK TOPICS:

ALM / DevOps	Cloud Computing	Database and Analytics	Web / Client	Software Practices	Visual Studio / .NET Framework	Native Client	Web Server	Microsoft Sessions

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A MESSAGE FROM THE CONFERENCE CO-CHAIRS

SUMMER ALWAYS BRINGS MEMORIES. Trips with families, summer camp, and good times seem to be the big themes. For your co-chairs, summer also means sharing knowledge. With 2018 being the 25th year for Visual Studio Live!, the memories come back to warm summers in New York at VBITS to the many great events we've had in the beautiful Pacific Northwest.

We're Andrew Brust, Rockford Lhotka, and Brian Randell, and as Conference Co-Chairs for Visual Studio Live! Redmond, we'd like to personally invite you to join us this August at Microsoft's headquarters in Redmond, WA. With 2018 in full swing, Microsoft and the rest of the technology world will continue to push the new with the old. As veterans of the show and longtime speakers, we may be biased, but we firmly believe that an in-person experience, where you get to have two-way conversations about the latest tools and technology, with some of the finest expert speakers in the business—and with the chance to network with your peers—continues to deliver the highest level of value.

Visual Studio Live! in Redmond gives you more of what you've asked for: 75-minute breakout sessions and two full-days of workshops, covering a wide array of development technologies for everyone. From security to databases to the latest Web and mobile technologies, we've got you covered. Our speakers will present on AI, mixed reality, bots, and enterprise software solutions in-depth, with experience on Windows, macOS, Linux, and mobile platforms. Being in Redmond means will get to hear from Microsoft team members who work on the products and get to interact with them one-on-one.

We have picked every workshop and session with the goal of transferring knowledge to you, so you can be a better developer and help your organization succeed in this ever-changing world.

You'll find coverage on Microsoft Visual Studio 2017, the full .NET Framework, .NET Core, .NET Standard, container technologies and Big Data analytics. If the Web is more your style, you'll find coverage of JavaScript, TypeScript, Angular and VueJS on the client as well as ASP.NET and ASP. NET Core on the server. Feeling confused about .NET? We've got sessions to clear it up. Want to improve the quality of your software? We've got sessions on unit testing, writing testable code, and versioning APIs. Mystified as to how you can bring DevOps to your organization? Our speakers will answer your questions with practical guidance on mobile development, Web, database and more.

Our workshop content provides coverage of Cross-Platform Distributed Application Architecture, SQL Server and DevOps with ASP. NET. If that's not what you're after, we've got two other great workshops on UX and design for developers and modern web development in 2018. Our sessions and workshops drill deep into the subjects you need to master and the fundamentals that are always important.

Our industry continues the march toward the future. To keep up, you need to absorb rapidly and adapt. Go beyond Internet-based content to a live experience, where you get to ask questions in real-time and engage directly with the experts and your peers. Find a way to get to Visual Studio Live! Redmond and get the tools to help yourself grow.

Come celebrate 25 years of great learning and make your own memories with us! We hope to see you there!

VISUAL STUDIO LIVE! CONFERENCE CO-CHAIRS

Andrew Brust
Founder & CEO, Blue Badge Insights
Visual Studio Live! Conference Co-Chair

Rockford Lhotka
CTO, Magenic
Visual Studio Live! Conference Co-Chair

Brian A. Randell
Partner, MCW Technologies
Visual Studio Live! Conference Co-Chair

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#VSLive25 1993 - 2018:

Thank YOU for being a part of our success

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TEN

REASONS TO ATTEND
Visual Studio Live! Redmond in 2018

10 **EXPERIENCE THE EDUCATION AND KNOWLEDGE-SHARE.**
Looking to improve your skills? We have you covered! Take advantage of 5 full days of educational sessions and workshops on hot topics like ASP.NET, DevOps, Xamarin, SQL Server, C# and so much more!
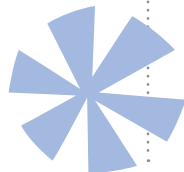
9 **DON'T MISS OUT ON THE SAVINGS!**
Register early to take advantage of the best prices for your developer education for a great price! Plus, your boss will be impressed with your savings!

8 **STAY AHEAD OF THE CURVE.**
Get relevant, immediately usable training on what's happening on the developer landscape now, and learn what's coming next to get ahead of the competition and share your findings with your team.
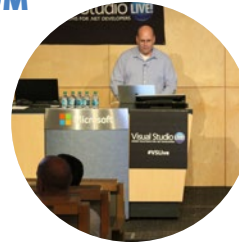
7 **THE CHOICE IS YOURS.** With over 70 sessions and workshops in a variety of tracks, you're free to choose what sessions you attend and when. You aren't bound to any one session or track! Sometimes it's hard to choose, though, so we provide all conference proceedings and any shared code for all the sessions free to attendees!

6 **UNPARALLELED SPEAKER ACCESS.** What has always separated Visual Studio Live! from other conferences (and internet-based training) is the unparalleled access to the speakers. Get your questions answered in-between sessions, during meals and at fun evening networking events.

5 **BECOME A LEADER BY LEARNING FROM THE BEST.**
Our speakers include both unbiased industry experts and Microsoft insiders, so you'll hear every side of the story on the most recent software and industry updates. Learn from the experts and then take that knowledge back and share with your team.
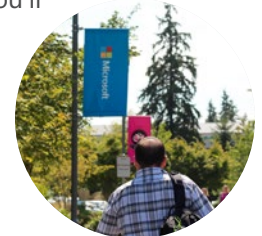
4 **FEATURED TRACK: MICROSOFT-LED SESSIONS!**
Hear from Microsoft insiders who are "in the trenches" working with developers just like you on a daily basis. Learn the newest techniques from those truly in the know, and provide the most-up-to-date analysis and detail on any development announcements made at the Microsoft Build and Ignite conferences.

3 **WE SAVED YOUR SPOT @ MICROSOFT HEADQUARTERS!**
From the networking breakfasts, to evening activities, to just sitting next to someone new at lunch, you'll have the unique chance to learn from and share with your peers! Plus, you'll run elbows with blue badges on campus, all week long!

2 **NETWORK WITH YOUR PEERS.**
Developers, engineers, software architects and designers will be at the conference from all around the world, so take advantage of the Dine-A-Round Dinner, Welcome Reception, and other networking events to get to know your peers.

1 **HELP US CELEBRATE 25 YEARS OF DEVELOPER TRAINING!** Join us at Visual Studio Live! Redmond while we celebrate our 25th year as the trusted resource for Microsoft platform focused developer education - @ THE Tech Mecca, Microsoft Headquarters.

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THE FUN STUFF:
VISUAL STUDIO LIVE! REDMOND EVENTS

YOUR ATTENDANCE AT VISUAL STUDIO LIVE! (VSLIVE!™) REDMOND 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!

ACCESS TO THE MICROSOFT COMPANY STORE
You bring the money, we get you special access!*
Monday, August 13 & Thursday, August 16

All Visual Studio Live! Redmond event attendees will have the opportunity to visit the Microsoft Company Store during their time at the conference and have access to the employee-only discount area. The company store's discount area is typically only open for Microsoft employees to purchase select Microsoft products at discounted prices, so you won't want to miss out on this great opportunity!

Popular home-use software titles such as Windows, Office, Office for Mac, and Streets and Trips are available. XBOX accessories and a selection of XBOX games are offered at significant savings. At the Redmond campus location, you will find one of the largest selections of Microsoft-branded PC hardware in any retail store. PC Hardware offered includes Keyboards and desktop sets, Mice, Webcams and more.

Visual Studio Live! Redmond event attendees will qualify for a pass that allows them access to the special discounts normally reserved only for Microsoft employees. Due to the amazing deals, each attendee is allowed to spend up to a maximum of $200. **Restrictions apply.

**Attendees will be given a voucher/form that allows them access to the employee only discount area to spend up to $200 of their own money on select Microsoft products.
**All attendees must have a valid driver's license that matches the name on the voucher.
**If using a credit card for payment, the name on the card must match the name on your voucher and identification.
**If you are employed by a government agency or a school or university, you are not eligible for the discount pass due to Microsoft policy.

VISIT THE MICROSOFT VISITOR CENTER
The Microsoft Visitor Center is open to all employees and visitors to the Microsoft campus. Come share in the excitement of their discoveries, explore some of the latest products, and meet some of the people whose ideas and creativity make Microsoft a world leader in computer and software industry.

MEET THE PROS
Let's face it—our talented team of speakers is the main reason you head to Visual Studio Live! events. They share your interest in the latest technologies while refusing to abandon challenging applications out there already. So why not get to know them in a different light during the breaks and networking

Microsoft Company Store

Microsoft Visitor Center

Meet the Pros

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VISUAL STUDIO LIVE! REDMOND EVENTS (continued)

opportunities we have planned for you in Redmond? Kick back with the people who love sharing their knowledge and experience to help you get where you want to be professionally.

DINE-A-ROUND DINNER
Monday, August 13
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 Bellevue area. This is your opportunity to meet fellow attendees and start friendships that can last for the week or even longer. Groups can break into smaller groups based on where everyone wants to dine and head off to dinner. Everyone is responsible for their own dinner.

LUNCH WITH THE BLUE BADGES
Monday, August 13 & Thursday, August 16
On Monday and Thursday, Visual Studio Live! attendees will have the opportunity to have lunch with the Blue Badges at The Mixer, the Microsoft employee lunch area with over 10 different restaurant options to choose from. These two extended lunch periods are also the perfect time to visit the Microsoft Visitor Center and the Microsoft Company Store. Shuttle service to and from the Commons, as well as Microsoft food coupons will be provided as part of your Visual Studio Live! registration.

MICROSOFT ASK THE EXPERTS & EXHIBITOR RECEPTION
Tuesday, August 14
Visual Studio Live! Redmond's Exhibitor Reception will be combined with a 90-minute Microsoft Ask the Experts session, where you'll get a chance to talk with Microsoft product team members and speakers. Enjoy drinks and snacks while you explore the Visual Studio Live! exhibits, network with fellow attendees and get answers to your questions for the experts and the exhibitors.

BIRDS OF A FEATHER LUNCH
Wednesday, August 15
Enjoy lively lunchtime discussions by joining one of our table topic conversations. 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 speaker's name. Join your favorite speaker for a lunchtime discussion or just to ask questions or clarify anything from their sessions.

Dine-A-Round Dinner
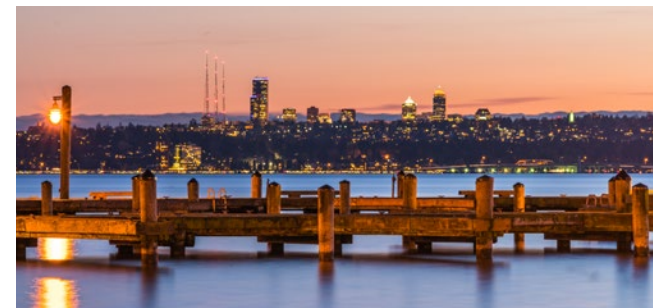

Reception

Birds of a Feather Lunch

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Set Sail!

VSLIVE'S SEATTLE SUNSET CRUISE ON LAKE WASHINGTON

Wednesday, August 15
6:15pm – 9:00pm

Pre-registration & $20 Confirmation Fee Required

Experience Seattle from the Eastside on this 90-minute narrated cruise of Lake Washington! Learn the history of the Eastside and Seattle neighborhoods bordering Lake Washington, take a swing by the Bill and Melinda Gates estate, and pass under the new Evergreen Point Floating Bridge (SR 520). Weather permitting, you'll take in breathtaking, panoramic views of the Seattle skyline and the Olympic mountain range to the west, and the majesty of Mount Rainier and the Cascade mountain range to the south and east. Complimentary light snacks and beverages will be available.

The tour will depart from the Kirkland City Dock at 7:00pm. Shuttles will be available from the Hyatt Regency Bellevue to the Kirkland City Dock at 6:15pm. Return shuttles to the Hyatt Regency Bellevue will be available from at 8:30pm following the cruise return.

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AGENDA AT-A-GLANCE

DETAILS COMING SOON! With all of the announcements coming out of Build, we'll be finalizing the Redmond Keynotes and the FULL Track of Microsoft-led sessions shortly. Be sure to check vslive.com/redmond for session updates!

ALM / DevOps	Cloud Computing	Database and Analytics	Native Client	Software Practices	Visual Studio / .NET Framework	Web Client	Web Server	Microsoft Sessions

START TIME	END TIME	Visual Studio Live! Pre-Conference Workshops: Monday, August 13, 2018 *(Separate entry fee required)*						
7:00 AM	8:00 AM	Pre-Conference Workshop Registration - Coffee and Morning Pastries						
8:00 AM	12:00 PM	**M01** Workshop: Build a Modern ASP.NET App in the Cloud with a full CI/CD Pipeline in VSTS - *Brian Randell*		**M02** Workshop: Developer Dive into SQL Server 2016 - *Leonard Lobel*			**M03** Workshop: Distributed Cross-Platform Application Architecture - *Rockford Lhotka and Jason Bock*	
12:00 PM	2:00 PM	Lunch @ The Mixer - Visit the Microsoft Company Store & Visitor Center						
2:00 PM	5:30 PM	**M01** Workshop Continues		**M02** Workshop Continues			**M03** Workshop Continues	
7:00 PM	9:00 PM	Dine-A-Round Dinner						

START TIME	END TIME	Visual Studio Live! Day 1: Tuesday, August 14, 2018						
7:30 AM	8:00 AM	Registration - Coffee and Morning Pastries						
8:00 AM	9:15 AM	**T01** Angular 101 - *Deborah Kurata*	**T02** Xamarin: The Future of App Development - *James Montemagno*	**T03** Cloud Oriented Programming - *Vishwas Lele*		**T04** Busting .NET Myths - *Jason Bock*		**T05** A DevOps Journey - *Abel Wang*
9:30 AM	10:45 AM	**T06** Write Object-Oriented JavaScript with TypeScript - *Rachel Appel*	**T07** Netstandard: Reuse C# Code Across Windows, Mac, Linux, iOS, Android - *Rockford Lhotka*	**T08** Microservices with ACS (Managed Kubernetes) - *Vishwas Lele*		**T09** Get Started with Git - *Robert Green*		**T10** DevOps for the SQL Server Database - *Brian Randell*
10:45 AM	11:15 AM	Sponsored Break - Visit Exhibitors - *Foyer*						
11:15 AM	12:15 PM	KEYNOTE: To Be Announced						
12:15 PM	1:30 PM	Lunch - *McKinley* / Visit Exhibitors - *Foyer*						
1:30 PM	2:45 PM	**T11** Angular Component Communication - *Deborah Kurata*	**T12** Tips & Tricks for Xamarin Development - *James Montemagno*	**T13** Modern SQL Server Security Features for Developers - *Leonard Lobel*	**T14** To Be Announced				**T15** Microsoft Session To Be Announced
3:00 PM	4:15 PM	**T16** Build Data Driven Web Apps Using ASP.NET Core - *Rachel Appel*	**T17** To Be Announced	**T18** Introduction to Azure Cosmos DB - *Leonard Lobel*	**T19** Building A Development Culture of Collaboration - *Justin Collier*				**T20** Microsoft Session To Be Announced
4:15 PM	5:45 PM	Microsoft Ask the Experts & Exhibitor Reception – Attend Exhibitor Demos						

Sessions and speakers subject to change.

🛡 Session features a Microsoft Speaker.

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	Microsoft Sessions

START TIME	END TIME	Visual Studio Live! Day 2: Wednesday, August 15, 2018				
7:30 AM	8:00 AM	Registration - Coffee and Morning Pastries				
8:00 AM	9:15 AM	**W01** Assembling the Web - A Tour of WebAssembly - *Jason Bock*	**W02** Mobile App Development for the Web Developer - *Ben Hoelting*	**W03** - SQL Server 2017 - Intelligence Built-in - *Scott Klein*	**W04** Azure DevOps with VSTS, Docker, and K8 - *Brian Randell*	**W05** Microsoft Session To Be Announced
9:30 AM	10:45 AM	**W06** Getting Pushy with SignalR and Reactive Extensions - *Jim Wooley*	**W07** Cross-Platform App Development Using Xamarin and CSLA .NET - *Rockford Lhotka*	**W08** An Architect's Guide to Data Science - *Becky Isserman*	**W09** Use Visual Studio to Scale Agile in Your Enterprise - *Richard Hundhausen*	**W10** Microsoft Session To Be Announced
11:00 AM	12:00 PM	GENERAL SESSION: To Be Announced				
12:00 PM	1:30 PM	Birds-of-a-Feather Lunch - Visit Exhibitors				
1:30 PM	2:45 PM	**W11** Building Reactive Client Experiences with RxJs - *Jim Wooley*	**W12** Radically Advanced XAML: Dashboards, Timelines, Animation, and More - *Billy Hollis*	**W13** Knockout: R vs Python for Data Science - *Becky Isserman*	**W14** Develop on Cadence, Release on Demand - *Richard Hundhausen*	**W15** Microsoft Session To Be Announced
2:45 PM	3:15 PM	Sponsored Break - Exhibitor Raffle @ 2:55 pm (Must be present to win)				
3:15 PM	4:30 PM	**W16** When It Isn't as Simple as .js -> .ts - *Garvice Eakins*	**W17** Programming with the Model-View-ViewModel Pattern - *Miguel Castro*	**W18** Busy Developer's Guide to NoSQL - *Ted Neward*	**W19** Visualizing the Backlog with User Story Mapping - *Philip Japikse*	**W20** Data Science for Developers - *Aashish Bhateja*
6:15 PM	9:00 PM	Set Sail! VSLive's Seattle Sunset Cruise - *Advanced Reservation & $20 Fee Required*				

Sessions and speakers subject to change.

🛡 Session features a Microsoft Speaker.

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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	Microsoft Sessions

START TIME	END TIME	Visual Studio Live! Day 3: Thursday, August 16, 2018						
7:30 AM	8:00 AM	Registration - Coffee and Morning Pastries						
8:00 AM	9:15 AM	**TH01** The Whirlwind Tour of Authentication and Authorization with ASP.NET Core - *Chris Klug*	**TH02** Getting Started Debugging C# Application - *Paul Sheriff*		**TH03** Leaders Are Made, Not Born - *Philip Japikse*	**TH04** Using The Microsoft Cognitive Custom Vision Service - *Michael Washington*		**TH05** Lessons Learned from Making Resilient Apps with Azure Mobile App Services - *Matthew Soucoup*	
9:30 AM	10:45 AM	**TH06** Introduction to Webpack - *Chris Klug*	**TH07** C# 7.x Like a Boss! - *Adam Tuliper*		**TH08** The Role of an Architect - *Ted Neward*	**TH09** Google Home Meets .NET Containers on Google Cloud - *Mete Atamel*		**TH10** Microsoft Session To Be Announced	
11:00 AM	12:15 PM	**TH11** JavaScript Patterns for the C# Developer - *Ben Hoelting*	**TH12** I'll Get Back to You: Task, Await, and Asynchronous Methods - *Jeremy Clark*		**TH13** Demystifying Microservice Architecture - *Miguel Castro*	**TH14** Building Business Applications Using Bots - *Michael Washington*		**TH15** Microsoft Session To Be Announced	
12:15 PM	2:00 PM	Lunch @ The Mixer - Visit the Microsoft Company Store & Visitor Center						
2:00 PM	3:15 PM	**TH16** Utilizing the MVVM Design Pattern in WPF - *Paul Sheriff*	**TH17** Getting to the Core of the .NET Standard - *Adam Tuliper*		**TH18** Unit Testing Makes Me Faster: Convincing Your Boss, Your Co-Workers, and Yourself - *Jeremy Clark*	**TH19** Wash, Rinse, Repeat: Writing Skills for Both Alexa and Cortana - *Christine Flora*		**TH20** Microsoft Session To Be Announced	
3:30 PM	4:45 PM	**TH21** WPF Styles, Resources and Templates, Oh My! - *Paul Sheriff*	**TH22** Building Apps with Microsoft Graph and Visual Studio - *Robert Green*		**TH23** How to Interview a Developer - *Billy Hollis*	**TH24** The Complete Package: Creating a Deployable Solution for Microsoft Teams - *Christine Flora*		**TH25** Microsoft Session To Be Announced	

START TIME	END TIME	Visual Studio Live! Post-Conference Workshops: Friday, August 17, 2018 *(Separate entry fee required)*	
7:30 AM	8:00 AM	Post-Conference Workshop Registration - Coffee and Morning Pastries	
8:00 AM	5:00 PM	**F01** Workshop: UX Design for Developers - *Billy Hollis*	**F02** Workshop: Web Developerment in 2018 - *Chris Klug*

Sessions and speakers subject to change.

🛡 Session features a Microsoft Speaker.

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KEYNOTE / GENERAL SESSION

Want a front-row seat to the future of technology? Attend the two general sessions for Visual Studio Live! Redmond to learn what's hot on today's tech landscape and what exciting developments lie ahead for this year and beyond.

Tuesday, August 14, 11:15am – 12:15pm

KEYNOTE: To Be Announced

Wednesday, August 15, 11:00am – 12:00pm

GENERAL SESSION:
To Be Announced

DETAILS COMING SOON!

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🔧 WORKSHOPS

Choose from a range of content and topics by expert presenters with Visual Studio Live! Redmond's pre- and post-conference workshops.

Topics covered include:
› **DevOps**
› **SQL Server for developers**
› **Distributed cross-platform application architecture**
› **UX design for developers**
› **Modern Web development**

M01 Workshop: Build a Modern ASP.NET App in the Cloud with a full CI/CD Pipeline in VSTS

Intermediate

BRIAN RANDELL

Monday, August 13, 8:00am - 5:30pm

DevOps is an organizational transformation that starts with people, process, and then products. It's a journey of continuous improvement that requires changes just about everywhere. As a developer, how can you embrace DevOps at a more technical level? You've heard you need to change the way you work with version control—trunk-based development? The idea of feature flags sound intriguing but how do you do it? Do you still need testers? How do you get to "10 plus deploys a day"?

It this all-day workshop, Brian will break the day down into five parts where we'll start with nothing and end with an ASP.NET app with a SQL Server Database running in Azure with a full continuous integration / continuous deployment (CI/CD) pipeline managed by Visual Studio Team Services (VSTS).

First, there will be a review on the current thinking on DevOps. Next will be the planning & tracking phase where the architecture of the app will be broken out and defined. Then the dev & test phase where we get feature flags implemented, CI builds working, manual and automated tests, and more. In the release phase, will look at how you create a deployment pipeline to multiple environments and how you validate a deployment after its release. Finally, the monitor & learn phase will cover analytics and user feedback and how you start the cycle over again.

By the end of the day you'll have the technical knowledge on how to build a modern ASP.NET and SQL Database solution that runs in Azure and has a full DevOps flow using VSTS.

M02 Workshop: Developer Dive into SQL Server 2016

Intermediate

LEONARD LOBEL

Monday, August 13, 8:00am - 5:30pm

This full-day workshop will get you up to speed on powerful features for developers in SQL Server. You'll learn about 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 Enhancements: You'll start with the many enhancements made to T-SQL; and learn about the T-SQL windowing (OVER clause) enhancements, running and sliding aggregates, 22 new functions, the THROW statement, server-side paging, the SEQUENCE object, metadata discovery techniques, and DIE (drop if exists).

Part 2—What's New in SQL Server 2016: Next you'll explore many of the latest SQL Server features introduced in SQL Server 2016. 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 into Azure SQL Database), temporal data (which enables "time travel"

to access data as it existed at any point in time), and integrated JSON support.

Part 3—Beyond Relational: Then you'll examine the powerful "beyond relational" features, and start thinking outside the box with respect to the types of data you can managed with a relational database system. Learn about the new built-in JSON support in SQL Server 2016. Dig into FILESTREAM and FileTable to discover how you can enjoy the native ability to store large binary objects in the file system. You'll also learn about the geospatial data types that let 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 will learn:
• About T-SQL enhancements including windowing, new functions, THROW, server-side paging, SEQUENCE, and DIE
• The new developer features in SQL Server 2016, including DDM, RLS, Always Encrypted, Stretch, and Temporal
• The beyond relational features in SQL Server, including JSON (new in 2016), FILESTREAM, FileTable, and geospatial data types

M03 Workshop: Distributed Cross-Platform Application Architecture

Intermediate

ROCKFORD LHOTKA AND JASON BOCK

Monday, August 13, 8:00am - 5:30pm

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 that span multiple machines and platforms, especially with the myriad cloud-based 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

🔧 WORKSHOPS (continued)

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.

F01 Workshop: UX Design for Developers

Introductory

BILLY HOLLIS

Friday, August 17, 8:00am – 5:00pm

If you create screens in your application without detailed wireframes, then you are doing UX design. Why not do it better? This full-day session will teach you two dozen fundamental principles of design, based on science of the visual system and human psychology. Then you'll see a lightweight process for understanding needs, observing users, and sketching to produce compelling, innovative experiences. The day is exercise-heavy, so come prepared to do hands-on, creative work. Many attendees have said this workshop changed their whole approach to software development.

You will learn:
• The principles of design through experience, taking tests to understand how your own mind and visual system work
• About a variety of bad user experiences, and learn how to pinpoint the principles behind its flaws
• A basic process for proceeding through UX design, starting with problem definition, and proceeding through user observation and design via sketching, wireframing, and prototyping

F02 Workshop: Web Development in 2018

Introductory / Intermediate

CHRIS KLUG

Friday, August 17, 8:00am – 5:00pm

Being a web developer is challenging. The world around us changes at a pace that would make most people dizzy. And if you are working in the Microsoft space and using Visual Studio for example, the release cadence of the IDE is way too slow to keep up. You have to go outside your comfort zone and locate other tools that can help you—tools that will do what you want, but will still work with your existing tools. You will probably also have to leave your Microsoft path and look at non-Microsoft technologies and frameworks. That can be a bit scary, but you might be surprised by what you find. The tools are different, the pace is ridiculous, and the pressure to keep up is high. So be prepared for a day of ASP.NET Core, Azure, node, npm, gulp, webpack, TypeScript, and more.

This workshop is intended for developers who find themselves a bit overwhelmed by today's web and the tools and technologies they see emerging around them. Throughout the day, you will see different tools and frameworks that will make your life as a front-end web developer easier, faster, or better. You will walk out with an urge to explore these new things, or potentially a loathing for web development. Either way, you will probably have a new way of looking at web development.

You will learn:
• How web development has changed a lot in the last few years
• About the tools that can make life a lot easier
• About the different tools and technologies available to us web developers

"OVERVIEW OF ALL KINDS OF TECHNOLOGY AND LATEST STATUS OF THAT. GOT A CHANCE TO TALK TO MICROSOFT TEAM MEMBERS AND MAKE MORE FRIENDS."

– Mel Liu, Jonas Software

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ALM/DEVOPS

DevOps is no longer a buzzword. Getting it right requires commitment from an organization and the practitioners to continuously improve how they deliver solutions. But you're at Visual Studio Live! looking to do just that—improve. You'll need to learn how to improve your processes and get the mechanics of automation down. You need to get people, process, and product working in harmony. In this track we've got a range of sessions to help you build software that provides value to your customers with greater quality delivered continuously as your users need it.

You'll find coverage of:

• The DevOps journey

• Developing on cadence, releasing on demand

• Using Visual Studio to scale agile in your Enterprise

T05 A DevOps Journey
Introductory/Intermediate
ABEL WANG
Tuesday, August 14, 8:00 - 9:15am

DevOps is the union of people, process, and products that facilitates continuous delivery of value to our users. This is vital in today's world, but it's not easy to do. See how Microsoft made their DevOps journey. Going from a waterfall process delivering new software once every three years to now delivering new features every three weeks with multiple bug fixes daily. This has not been easy or pain free. Come see the lessons learned from all the painful mistakes made by Microsoft when they embarked on their DevOps Journey and the changes they have made to embrace DevOps.

You will learn:
• What is DevOps? Why is it important?
• What was Microsoft's DevOps journey?
• Best practices for DevOps

T10 DevOps for the SQL Server Database
Intermediate
BRIAN RANDELL
Tuesday, August 14, 9:30 - 10:45am

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

In this session, you'll learn where SQL Server 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 deploy to multiple environments development, test, UAT, and production—with complete automation like. You'll learn the process as well as see examples using the Visual Studio 2017 SQL Server Database Tools, Team Foundation Server Team Build, Release Management, and custom tools from Redgate.

You will learn:
• Why you need DevOps for your database
• How to define a good database update process
• How to use Microsoft and Redgate tools to implement a CI/CD pipeline

W04 Azure DevOps with VSTS, Docker, and K8
Introductory / Intermediate
BRIAN RANDELL
Wednesday, August 15, 8:00 - 9:15am

Have you heard? Containers are where it's at for your apps and where you want to run your ASP.NET Core apps on top of .NET Core. But what's this K8S thing all about? Will Azure make it easier? In this session, Brian will give you a crash course in taking an ASP.NET Core app and get it running up in a container on Azure managed with Kubernetes and all driven from a CI/CD pipeline in Visual Studio Team Services (VSTS).

You will learn:
• How to put a ASP.NET Core app into a Docker container
• How to configure Kubernetes (K8S) in Azure
• How to rub some DevOps on the process with VSTS

W09 Use Visual Studio to Scale Agile in Your Enterprise
Intermediate
RICHARD HUNDHAUSEN
Wednesday, August 15, 9:30 - 10:45am

Scaled Agile Framework (SAFe)? Scaled Professional Scrum (SPS)? Large-Scale Scrum (LeSS)? Whatever framework or guidance you use you can implement it with Visual Studio Team Services. Microsoft knows a thing or two about using ALM tools and Agile practices. As a result, the company designed VSTS/TFS to support some of the largest teams in the world. These are the kind of software organizations that want to manage goals and requirements spanning multiple teams and sprints. In this session, you will see how to create and manage a portfolio of projects, teams, and backlogs and how to plan and track work across them.

You will learn:
• How to use Team Foundation Server to plan and track an enterprise-scale agile software development effort How to customize Team Foundation Server to fit your scaled Agile framework
• How to configure and manage multiple teams to work off of the same product backlog

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W14 Develop on Cadence, Release on Demand

Intermediate

RICHARD HUNDHAUSEN

Wednesday, August 15, 1:30 - 2:45pm

Most software development teams want to achieve continuous delivery (CD). This becomes mandatory for scaled development efforts. For teams that aren't there yet, the limitations are not just technical. You have to automate build, test, and deployment, but developers must also work as team. This becomes evident in the way a team plans and executes their work. The practice of continuous integration becomes mandatory as well, as the team realizes that breaking the build is a form of feedback and learning. Feature toggles or related engineering will enable features and fixes to be deployed on cadence and released on demand.

You will learn:
• Best practices for reaching and maintain cadence
• How to automate build, test, and deploy
• How to use feature flags to release on demand

W19 Visualizing the Backlog with User Story Mapping

Intermediate

PHILIP JAPIKSE

Wednesday, August 15, 3:15 - 4:30pm

Visualizing the Backlog with User Story Mapping User Story Mapping is a process the visualizes your project, enhances transparency, and helps resolve scope contention. In this hands on exercise, we will jointly create a user map, clearly defining order, minimal marketable features, and release plans.

You will learn:
• ·Why user story mapping matters
• ·How to story map
• ·How to build sprint/release plans from story maps

CLOUD COMPUTING

Most IT practitioners agree: the future of application development is service-based and in the cloud, most likely using container technologies like Docker. Cloud computing offers flexible scalability and 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 become familiar with cloud computing and the services approach to development.

This track includes coverage of the following:

• Cloud-oriented programming
• Hosting microservices in Azure with ACS and Kubernetes
• Cloud hosted bots
• Cognitive services in the cloud
• Google Home, .NET containers and the Google Cloud
• Alexa and Cortana skills

T03 Cloud Oriented Programming

Introductory

VISHWAS LELE

Tuesday, August 14, 8:00 - 9:15am

The public cloud is tomorrow's IT backbone. As cloud vendors introduce new capabilities, the application-building 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:
• The tenets of the cloud: global scale, commodity hardware, usage-based billing, scale-out, and automation
• How does the cloud impact what you do as programmers every day?
• What do you need to do at a program level that aligns you with the aforementioned tenets?

T08 Microservices with ACS (Managed Kubernetes)

Intermediate

VISHWAS LELE

Tuesday, August 14, 9:30 - 10:45am

Many are increasingly seeing microservices and containers as an architectural style of choice. Kubernetes is also gaining a lot of momentum. This session will look at key tenets of microservices. You'll also learn how to practically apply these concepts to Azure Container Service (Managed Kubernetes).

You will learn:
• About microservices and containers
• Key Kubernetes concepts
• How to set up and deploy applications to ACS

TH04 Using the Microsoft Cognitive Custom Vision Service

Introductory/Intermediate

MICHAEL WASHINGTON

Thursday, August 16, 8:00 - 9:15am

This beginner-level session will teach you how to leverage Microsoft Custom Vision Service to deliver business applications. You'll learn to upload sample images, classify them, train a model, and then use that model to evaluate and automatically classify your images. You'll also learn how to create a .Net Core Angular application that consumes your Custom Vision Service machine learning

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model. Finally, you'll learn how to leverage the Custom Vision API to create a .Net Core Angular application that programmatically trains your Custom Vision Service machine learning model.

You will learn:
• How to evaluate and estimate costs of using the Microsoft Custom Vision Service
• The basics of building an application consuming the Microsoft Custom Vision Service API
• How to call and consume the Microsoft Custom Vision Service API

TH09 Google Home Meets .NET Containers on Google Cloud

Intermediate

METE ATAMEL

Thursday, August 16, 9:30 - 10:45am

Google Cloud is well-known for its support for containers. This session will take a look at how to deploy and run ASP. NET Containers on App Engine Flex and Google Kubernetes Engine. You'll also learn about some of the Google Cloud services such as Stackdriver, Machine Learning APIs,

BigQuery and see how they can elevate your .NET app to the next level. If you're curious about what Google has to offer for your .NET apps, don't miss this session.

You will learn:
• About .NET Containers
• About Kubernetes, Google Kubernetes Engine, App Engine
• About Machine Learning APIs, Stackdriver, BigQuery

TH14 Building Business Applications Using Bots

Introductory/Intermediate

MICHAEL WASHINGTON

Thursday, August 16, 11:00am - 12:15pm

Communication with customers and employees is improved when you open text and voice communication channels using bots. This beginner-level session will teach you how to leverage Microsoft Cognitive services to design, train, and deploy your custom bots and consume them in your custom applications and others channels such as Skype, Facebook, and Amazon Alexa.

You will learn:
• How to create and design bots using Microsoft Cognitive services
• How to deploy and consume using Skype and Facebook
• How to communicate with users through Amazon Alexa and Cortana

TH19 Wash, Rinse, Repeat: Writing Skills for Both Alexa and Cortana

Intermediate

CHRISTINE FLORA

Thursday, August 16, 2:00 - 3:15pm

During this session, you'll explore the differences and similarities between writing skills for Alexa and Cortana, how to setup your environment, and suggested practices

for writing a skill once and deploy on both platforms. This session will also:

• Review the differences and similarities of how skills are created for each platform
• Review best practices for developing skills for each platform
• Walk through setup of the development environment for each platform
• Create a sample skill and review how to package it for deployment

You will learn:
• Alexa and Cortana skills
• How to setup your development environment to build skills
• How to cross pollinate between the platforms with very little effort

TH24 The Complete Package: Creating a Deployable Solution for Microsoft Teams

Intermediate

CHRISTINE FLORA

Thursday, August 16, 3:30 - 4:45pm

Microsoft Teams is fast becoming the golden child of team collaboration for all things Microsoft. But did you know it is also a rich development platform in which to create great targeted collaboration solutions? This session will explore the different features within Teams, how to add setup your environment, suggested practices for extending the platform, and what are the caveats and pitfalls for deploying them in your environment.

You will learn:
• About the features that your solution can utilize including tabs, channels, bots, and connectors
• Best practices for developing for the platform
• About setup of the development environment for the platform and create a sample solution and review how to package it for deployment

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DATABASE AND ANALYTICS

SQL Server 2017 runs on Windows and Linux. NoSQL databases are hot too. And well on the rise are machine learning and artificial intelligence. When it comes to data, Visual Studio Live! helps you skill up on the old and the new; the traditional and the disruptive, with coverage including:

• SQL Server 2017
• Azure Cosmos DB
• SQL Server security
• NoSQL
• Data Science, R and Python

T13 Modern SQL Server Security Features for Developers
Intermediate
LEONARD LOBEL
Tuesday, August 14, 1:30 - 2:45pm

In recent SQL Server releases, the database engine has been greatly enhanced for security, with three new features you'll learn about in this demo-packed session. With dynamic data masking (DDM), you can fully or partially conceal sensitive columns from query results. Masking doesn't modify data on in the table, it simply hides data from users that don't have permission. Row-level security (RLS) also hides data from unauthorized users, but at the row level. With RLS, you can create your own security policy to control which users can read or write specific rows in the table. Finally, Always Encrypted (AE) uses client-side encryption to ensure data is encrypted in flight, not just at rest. Encryption keys are accessible only to the client. This guarantees data can't be decrypted on the server, easing the migration path to the cloud for users with highly sensitive data.

T18 Introduction to Azure Cosmos DB
Introductory
LEONARD LOBEL
Tuesday, August 14, 3:00 - 4:15pm

Azure Cosmos DB is a globally distributed, massively scalable, low (single-digit millisecond) latency, fully managed NoSQL database service designed specifically for modern web and mobile applications. Like other NoSQL platforms, Cosmos DB supports a schema-free data model, built-in partitioning for sustained heavy-write ingestion, and replication for high availability. Only Cosmos DB offers turnkey global distribution, automatic indexing, and SLAs for guarantees on 99.99 percent availability, throughput, latency, and consistency.

The session begins by explaining NoSQL databases in general, and how they compare with traditional relational database platforms. Then you'll learn about the many features of Cosmos DB, including its multi-model capabilities, which let you store and query schema-free JSON documents (using either DocumentDB or MongoDB APIs), graphs (Gremlin API), and key/value entities (tables API). You'll learn about global distribution, scale-out partitioning, tunable consistency, custom indexing, attachments, and more. You'll also explore client development using the many available SDKs and APIs. This session will get you up to speed on Cosmos DB.

W03 SQL Server 2017—Intelligence Built-in
Intermediate
SCOTT KLEIN
Wednesday, August 15, 8:00 - 9:15am

Dev-Ops requires the right tools to build and tune queries for maximum performance. SQL Server 2016 and 2017 have all the built-in diagnostics you need. There is also intelligence built-in to the engine based on these diagnostics to automate, learn, and adapt. In this demo-filled session, you'll see the wide variety of these built-in diagnostics and performance tools, and you'll learn why SQL Server diagnostics are the best in the industry, and how they span across all platforms like SQL Server, Azure, and Linux.

W08 An Architect's Guide to Data Science
Introductory
BECKY ISSERMAN
Wednesday, August 15, 9:30 - 10:45am

Have you ever wondered how to start in the data science realm? There are thousands of different courses and several different certificates in the data science realm. What are the relevant tools and programming languages that a developer needs to know when getting into field? In this session we will discuss these key points:

• The most helpful online courses on introducing Data Science
• The difference between programming languages
• The tools available for creating data models
• The key certificates available

Attendees should have a basic understanding on how to get started in the data science field.

You will learn:
• How to decipher online courses relevant to introducing Data Science
• How to understand programming languages related to Data Science and why to choose each language
• How to understand the tools relative to data science models

W13 Knockout: R vs Python for Data Science
BECKY ISSERMAN
Wednesday, August 15, 1:30 - 2:45pm

The two most popular languages for analysis in data science are R and Python. R has primarily been used for statistical analysis in academia, whereas Python is primarily used by developers trying to enter the realm of data science. Each language has their advantages and can work with each other. This session will discuss why a data scientist would use each language and the hurdles as you start on your data science journey.

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You will learn:
- The various uses for R and Python in Data Science
- Programming using both R and Python together in Projects
- Both R and Python as you start your Data Science Journey

W18 Busy Developer's Guide to NoSQL

Intermediate

TED NEWARD
Wednesday, August 15, 3:15 - 4:30pm

With the introduction of CouchDB, the world suddenly seemed to be alive with a whole slew of alternative approaches to data persistence, collectively called NoSQL. Each offers a slightly different to radically different view of data storage and retrieval. This has left a few developers scratching their heads trying to figure out when to use a NoSQL database instead of a regular database, much less which NoSQL database to use. This session will examine the NoSQL ecosystem, look at the major players, how they compare and contrast, and what sort of architectural implications they have for software systems in general.

You will learn:
- What NoSQL is and why it came to be
- The benefits and drawbacks of non-relational databases
- About a couple of non-relational databas implementations

W20 Data Science for Developers

Intermediate

AASHISH BHATEJA
Wednesday, August 15, 3:15 - 4:30pm

Developers are looking to build apps that more deeply understand the world around them, their users, and the data used or generated by the application. This session will be a guide for putting data science to use, today, in your application. We'll cover basic data science techniques, and then talk about tools, frameworks, and services you can use to spice up your apps, starting today. We will specifically cover using Visual Studio on how to train and deploy a Machine Learning model from scratch.

NATIVE CLIENT

Native applications, whether they're on Windows, Linux, Mac, iOS or Android, are of utmost importance. Virtual, augmented, and mixed reality apps are maturing and enjoy a lot of mindshare. Mobile apps have become the most common computing platform for most users, their organizations, and their business applications. In the desktop arena, it can be easy to forget that there are over 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:

- Xamarin app development
- .NET Standard, and code re-use across platforms
- Mobile development with Google Flutter
- Cross-platform apps in C# with CSLA.NET
- Advanced XAML
- Programming with the MVVM pattern
- WPF development

T02 Xamarin: The Future of App Development

Advanced

JAMES MONTEMAGNO
Tuesday, August 14, 8:00 – 9:15am

Xamarin helps C# developers become native iOS, Android, and Windows mobile app developers overnight. During this session, you'll learn how to leverage your existing .NET and C# skills to create iOS and Android mobile apps in Visual Studio with Xamarin. Besides writing your iOS and Android apps in C#, Xamarin lets you reuse existing .NET libraries and share your business logic across iOS, Android, and Windows apps. This session will cover the Xamarin platform and how to create native iOS, Android, and Windows apps in C#. See what is new and next for Xamarin development inside of Visual Studio. You'll focus on the code, with several live coding adventures throughout the session and the latest and greatest in native cross-platform development.

T07 Netstandard: Reuse C# Code across Windows, Mac, Linux, iOS, Android
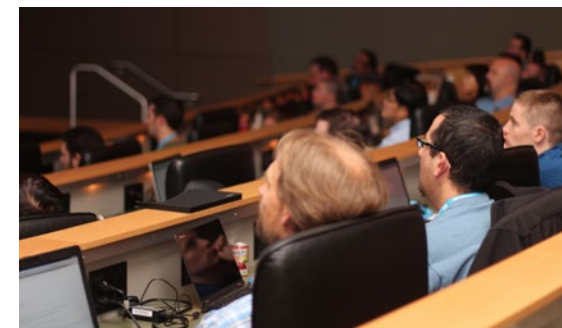
ROCKFORD LHOTKA
Tuesday, August 14, 9:30 – 10:45am

At some point you are going to need to get your existing code base running on .NET Core, UWP, Xamarin, or another flavor of .NET. In the past you might have used Portable Class Libraries (PCLs) or Shared Projects to accomplish this goal. The new netstandard 2.0 definition is implemented by .NET Core, Xamarin, full .NET, and UWP, and this means we have a much simpler and more direct way to share and reuse code across all platforms.

You will learn:
- About netstandard 2.0 and its relationship to all .NET implementations
- How to use Shared Projects to bridge between legacy code and modern NS 2.0 code
- Strategies to access per-platform code from cross-platform projects

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T12 Tips & Tricks for Xamarin Development

Intermediate

JAMES MONTEMAGNO

Tuesday, August 14, 1:30 – 2:45pm

This session will cover the top tips and tricks for getting started and mastering Xamarin development.

W02 Mobile App Development for the Web Developer

Intermediate / Advanced

BEN HOELTING

Wednesday, August 15, 8:00 – 9:15am

Developing mobile apps is an attractive endeavor, but the cost and time to get started can be intimidating. Developing a native app for every platform requires a different development toolset, as well as duplicate code bases. Mobile web sites have a single code base, but limited access to native device capabilities and are not store deployable. Hybrid mobile apps can be the best of both worlds. Using Visual Studio Tools for Apache Cordova (TACO), you can build rich mobile apps with access to native device capabilities using HTML5, JavaScript and CSS. This session will show you how to develop hybrid mobile apps using skills you already know as a web developer.

You will learn:
• How to develop cross-platform mobile apps using HTML5, JavaScript and CSS
• Details of developing hybrid mobile apps
• Lessons from building real-world, production hybrid mobile apps

W07 Cross-Platform App Development Using Xamarin and CSLA .NET

Intermediate

ROCKFORD LHOTKA

Wednesday, August 15, 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.

You will learn:
• How to reuse your business logic across platforms
• How CSLA .NET creates a home for your business logic
• How to minimize code changes on a per-platform basis

W12 Radically Advanced XAML: Dashboards, Timelines, Animation, and More

Intermediate

BILLY HOLLIS

Wednesday, August 15, 1:30 – 2:45pm

You've probably learned just enough XAML to get by. You know how to create typical business application screens, but you don't have the time to learn enough to really drive XAML to its potential. This session is your shortcut. You'll see the tangible techniques of advanced XAML, inspired by real projects. If you are a XAML noob, you can come and see what's possible, but these demos are for people who already know the basics of XAML and want to go deeper.

You will learn:
• About layering, composition, and other techniques to produce results in XAML you can't get in other UI technologies
• The design and architecture of a XAML dashboard
• How to show time-based data with advanced layout

W17 Programming with the Model-View-ViewModel Pattern

Intermediate

MIGUEL CASTRO

Wednesday, August 15, 3:15 – 4:30pm

MVVM became popular with WPF, but the pattern is applicable in many platforms, including the Universal Windows Platform and Xamarin Forms. If you notice a commonality here in that all these use XAML, you would be correct. The ideas and goals around the MVVM pattern seem to vary from person to person, but the one thing they all share is a reusable and testable point of binding for XAML views. This session will show you what MVVM is, 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, it is at the root of many web frameworks like Angular, Knockout, and Aurelia, so you'll be able to take this knowledge with you on the road to use in other platforms. And don't forget, XAML is what you use in Xamarin Forms too.

You will learn:
• The importance of the MVVM pattern
• All about XAML data binding
• About unit testing view-models

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TH05 Lessons Learned from Making Resilient Apps with Azure Mobile App Services

Intermediate / Advanced

MATTHEW SOUCOUP

Thursday, August 16, 8:00 – 9:15am

Mobile app users are always on the go, and they expect our apps to always work, regardless of the internet connection. From a WiFi connection with high throughput, to an intermittent cell connection that keeps dropping, apps need to work for prolonged periods of offline use. Not only that, when devices return online, apps need to gracefully handle data synchronization and data conflicts as well.

This session will share hard-earned lessons on how to solve the problem of online/offline data resiliency and synchronization using Azure Mobile App Services from my experience using it in multiple Xamarin projects. You will learn how to solve the issues that arise with improper client-side data schemas, pushing data to the server without knowing when the connection will be interrupted, and reconciling conflicting data between the server and the app. You'll be well equipped to have your app ready for anything.

You will learn:
• How to best design an online mobile app
• How to handle the synchronization process with Azure Mobile App Services
• How to accommodate for data conflicts between the app and the server

TH16 Utilizing the MVVM Design Pattern in WPF

Intermediate

PAUL SHERIFF

Thursday, August 16, 2:00 – 3:15pm

There are way too many overly complex Model View View Model (MVVM) design patterns and libraries in the development world. How is a programmer new to WPF to ever learn how to use MVVM quickly and easily?

This session will guide you step-by-step on how to take advantage of this powerful design pattern. You will not have to learn any of the MVVM libraries. Instead you will see how to use your own classes to implement MVVM. The main goal of MVVM is to help you develop code that is testable and re-usable, and this can be accomplished by just using a simple approach to MVVM. You will walk away with some great base classes that will help you incorporate MVVM into your WPF applications.

You will learn:
• How to use the MVVM design pattern effectively
• How to use a base class for your MVVM design
• How to keep MVVM simple

TH21 WPF Styles, Resources and Templates, Oh My!

Introductory

PAUL SHERIFF

Thursday, August 16, 3:30 – 4:45pm

During this session, you'll learn how to effectively use styles in your WPF applications. You will learn the basics of styles, how to override styles, base styles on other styles, create resource dictionaries and override control templates. You can load resource dictionaries dynamically, placed them into DLLs, or right in your main application. You will learn the best practices around how to manage your dictionaries. Being able to change the look and feel of the default controls can go a long way in giving your users a great UI. You will learn to modify controls by changing their default template. At the end of this session you will walk away with a set of reusable styles and resources that you can use immediately in your WPF applications.

You will learn:
• Best uses of styles, resources and templates
• How to use style inheritance
• Wrap styles into resource dictionaries for reusability

SOFTWARE PRACTICES

Every developer knows that 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 our application of patterns and practices, are key to success.

Topics in this track include:
• Building a development culture of collaboration
• The role of an architect
• Demystifying microservice architecture
• Unit testing and TDD
• Interviewing developers

T19 Building A Development Culture of Collaboration

Introductory / Intermediate

JUSTIN COLLIER

Tuesday, August 14, 3:00 – 4:15pm

Collaboration is a key element to success in our business and personal lives. In personal relationships, it might be working with your spouse to build goals and fulfill dreams. In the business of software, it is making sure that releases go out on time with as few defects as possible. Regardless of your team size, there are tools and best practices that can make collaboration easier. However, no tool or best practice matters if you don't build a strong culture.

Building a strong culture is critical to the success of any organization. Positive cultures that have taken years to build can quickly become negative cultures in a matter of months. Many people are afraid that their peers or managers will judge them for speaking up. So, how can you as an individual contributor or a manager help ensure your team and organization are building not only quality products but building a strong culture of collaboration? During this

SESSION DESCRIPTIONS BY TRACK (continued)

session, you'll hear about the challenges that many teams face and how to overcome them, software quality, swaying the naysayers and the benefits of collaboration.

Discussion points will include:

• The power of listening and asking questions
• Negativity and the impact it has
• What it takes to create a software quality culture and owning the process
• Tools that assist with collaboration
• How to overcome objections

TH03 Leaders Are Made, Not Born

PHILIP JAPIKSE

Thursday, August 16, 8:00 – 9:15am

Leaders aren't born, they aren't hatched, and they don't apparate. Leadership is a journey, one that involves hard work, practice, and a deep understanding of not only your team members but also yourself. I've led teams large and small throughout my 30 year career, and certainly made plenty of mistakes on the way, but I've learned to fail fast, iterate, and continuously improve to create high performing teams across multiple verticals. In this session, I share what I have learned over the years being a leader and being led.

You will learn:
• Traits of a good leader
• Ways to become a better leader
• Ways to make your teams more effective

TH08 The Role of an Architect

TED NEWARD

Thursday, August 16, 9:30 – 10:45am

What is the role of an architect in a software project? This question has plagued many a software organization (and even those who do the job), and provided loads of entertainment. In this presentation, you'll explore the intersection of software architect with the worlds of architecture, psychology, business, and even music. By the end, though, you'll have a clear idea of what an architect is, does, and needs.

TH13 Demystifying Microservice Architecture

Advanced

MIGUEL CASTRO

Thursday, August 16, 11:00am – 12:15pm

Many developers don't really have a clear understanding of what Microservices are. The reason is two-fold. First, may are too hung up on the technology to use. It's gotta be REST, they have to be small (it's micro remember), you gotta use Docker, and so on. This is intended to be sarcastic, in case you didn't notice. The second reason is devs are not thinking of their systems in a more holistic fashion when trying to fit what they think are microservices into the mix. And note, this way of thinking about a system does not imply a tightly coupled system, don't worry. This session will not be about code, but more about architecture and design. You'll learn what microservices are and what a microservice architecture is and discuss the characteristics at the service level and with everything that surrounds them in the architecture. You'll talk about the concept of "design for failure" while covering topics like hosting, discoverability, failover, and the often-confusing API Gateway are some of the things you will need to understand before you embark on the adventure that is a microservice architecture and is it even something that will work for you.

You will learn:
• The definition of microservices
• About removing technology hang-ups
• Holistic architecture approaches

TH18 Unit Testing Makes Me Faster: Convincing Your Boss, Your Co-Workers, and Yourself

Introductory

JEREMY CLARK

Thursday, August 16, 2:00 – 3:15pm

Bosses hate unit testing. They see it as code that doesn't contribute to the final product. And maybe you see testing that way as well. Here's the truth though: unit testing makes us faster. You'll look at specific examples of how unit tests save time in the development process by letting us code more confidently, catch bugs earlier, and minimize manual testing. With this in hand, you can show your boss (and yourself) how unit testing makes us faster.

You will learn:
• How to increase confidence and reduce manual testing with automated unit tests. Result: Go faster
• How to catch bugs early in the development life-cycle with automated unit tests. Result: Go faster
• How to reduce the number of regression bugs when changing existing code. Result: Go faster

TH23 How to Interview a Developer

Introductory

BILLY HOLLIS

Thursday, August 16, 3:30 – 4:45pm

Most developers end up interviewing candidates for their team at some point, but few receive any instruction in how to do it. During this session, you'll hear from a veteran team leader and developer with more than 400 interviews under his belt will cover the basics, including general approach, questions to ask, and other tips for more reliable evaluation before, during, and after interviews. This session can yield many tangible benefits, including an increased retention rate.

You will learn:
• Questions to ask when interviewing a developer, with deeper analysis of what each question reveals
• Common interview mistakes and how to avoid them
• The most important non-technical aspects of a candidate you need to discern during an interview

"I USED UP THREE YEARS OF STAFF DEVELOPMENT FUNDING AND TRAVELED 20 HOURS TO BE HERE: IT WAS WORTH IT! THANK YOU."

– Barry Hebbron, Teeside University

SESSION DESCRIPTIONS BY TRACK (continued)

VISUAL STUDIO / .NET FRAMEWORK

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. Visual Studio even provides preview updates monthly. 2018 is bringing with it tons of new enhancements and features to make Visual Studio better, not to mention Microsoft's continued investment into open source and cross-platform development.

Topics in this track include:

• .NET Core and .NET Standard
• C# 7
• Task, Await and asynchronous methods
• Git
• Microsoft Graph
• Git
• Roslyn
• Creating your own code analyzers

T04 Busting .NET Myths

Intermediate

JASON BOCK

Tuesday, August 14, 8:00 - 9:15am

Types and attributes; language keywords and features; and disposable objects. Both C# and the .NET Framework have a ton of features and capabilities within, but sometimes erroneous information is spread about how they work. This session will set things straight on a number of topics so you know exactly what's going with your code.

You will learn:
• How key parts of .NET works
• Insight into language features and their implementations
• New skills to apply in .NET applications

T09 Get Started with Git

Intermediate

ROBERT GREEN

Tuesday, August 14, 9:30 - 10:45am

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 as a way of sharing code with others. In this session, you will learn the basics of using Git. You will get 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.

You will learn:
• What Git is and how to get started using it
• About the basics of Git, including repos, committing changes, branching and merging
• How to use Git with GitHub, VSTS and Visual Studio

TH02 Getting Started Debugging C# Application

Introductory

PAUL SHERIFF

Thursday, August 16, 8:00 - 9:15am

If you have not really dug into the VS.NET debugger, then this seminar is for you. You will explore all the various breakpoint, tracepoint, data tips, and the myriad features that this powerful debugger lets you use. You will see how to set conditional breakpoints, use the Debug and Trace objects, and learn the difference between the Watch window, locals and immediate window.

You will learn:
• Using the debugger in Visual Studio
• Using breakpoints
• Data tips and visualizers

TH07 C# 7.x Like a Boss!

Introductory

ADAM TULIPER

Thursday, August 16, 9:30 - 10:45am

C# brings long requested features to what is already a powerful language. This new version contains many rich features that have had strong interest from the developer community. In this session, you'll explore the new features from C# 7 onwards include features such as pattern matching to do advanced comparisons with values in objects, local functions for function-in-function support (which can be better than anonymous if you understand their use cases), and tuple value types. If you thought that was pretty good, there's even more. This session will give you a good understanding of the entire new feature set and when to use them.

You will learn:
• What the C# 7.x feature set is
• About new features such as tuples and what runtimes can utilize them
• When it is optimal to use new features

TH12 I'll Get Back to You: Task, Await, and Asynchronous Methods

Introductory / Intermediate

JEREMY CLARK

Thursday, August 16, 11:00am - 12:15pm

There's a lot of confusion about async/await, Task/TPL, and asynchronous and parallel programming in general. This session will start with the basics and look at how you can consume asynchronous methods using Task and then see how the "await" operator can makes things easier. Along the way, you'll 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
• About request and respond to cancellation

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SESSION DESCRIPTIONS BY TRACK (continued)

TH17 Getting to the Core of the .NET Standard

Introductory

ADAM TULIPER

Thursday, August 16, 2:00 - 3:15pm

Creating .NET code that runs across the various .NET Platforms is challenging on many levels. There are many runtimes and versions to complicate things even more. How do you move your code between Unity, Xamarin, .NET Core, .NET Framework, UWP, or other .NET Platforms? Enter in the .NET Standard. The .NET Standard exists for the reason of making portable code easier. This doesn't mean profile based portable class libraries (PCL's) as those were a bit difficult at times to work with. With the .NET Standard, you can now easily understand what platforms your code can run on. Can a NuGet package run in my project? Why or why not? Now you can understand how and why a package will run in your project. This session will help you learn all about .NET Standard and the portability of .NET code.

You will learn:
• Why the .NET Standard exists
• How the .NET Standard is built and how it is versioned
• When to develop against the .NET Standard and use .NET Standard assemblies

TH22 Building Apps with Microsoft Graph and Visual Studio

Intermediate

ROBERT GREEN

Thursday, August 16, 3:30 – 4:45pm

With the Microsoft Graph you can connect to the data that drives productivity: e-mail, calendar, contacts, documents, directory, devices, and more. This session will show you how to use the Graph API to build apps (desktop, Web, mobile, UWP) that make your life easier and your apps more powerful.

You will learn:
• What the Microsoft Graph is and how you can use it your apps
• How Microsoft Graph is the gateway to Microsoft Cloud Services data and intelligence which can be used to power your apps
• How to build integrations with Office 365 using a combination of Microsoft Graph, direct service endpoints and LOB data to best serve customer needs

WEB CLIENT

The browser and JavaScript provide perhaps the highest and best abstraction over every operating system, allowing developers to 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, Breeze, RxJS 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
• Angular component communication
• WebAssembly
• Building a reactive client experience with RxJS
• Single Page Apps with Angular and Breeze
• JavaScript patterns for C# developers

T01 Angular 101

Introductory

DEBORAH KURATA

Tuesday, August 14, 8:00 - 9:15am

This beginner-level session introduces the .NET developer to Angular, the popular JavaScript framework for building client-side applications. The session will 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:
• Angular terms and concepts
• The basics of building an Angular application using the Angular CLI
• Angular's data binding features and syntax

T11 Angular Component Communication

Introductory / Intermediate

DEBORAH KURATA

Tuesday, August 14, 1:30 - 2:45pm

Communication is the key to every successful relationship. That includes the relationship between the components of an Angular application. This session details key techniques for passing and sharing data and subscribing to notifications so that components can work together effectively.

You will learn:
• How a component can communicate with its template including the ViewChild decorator
• How a parent component can communicate with a child component including the Input and Output decorators
• How to build a service as an intermediary for communication among components and send notifications using Subject and BehaviorSubject operators

SESSION DESCRIPTIONS BY TRACK (continued)

W01 Assembling the Web—A Tour of WebAssembly

Intermediate

JASON BOCK

Wednesday, August 15, 8:00 - 9:15am

WebAssembly ... what is it exactly? Is it a new VM? A way to create a binary version of JavaScript? 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

W11 Building Reactive Client Experiences with RxJs

Intermediate

JIM WOOLEY

Wednesday, August 15, 1:30 - 2:45pm

You've been building event-based asynchronous applications for decades now, but traditional event-based models suffer from complex nested callbacks, are difficult to mock and test, and struggle to manage synchronizing multiple streams. Reactive programming models can help to solve these challenges. RxJs also consider the impact of time on these observables, which facilitate simplifying gesture based recognition. With RxJs bundled into Angular, you'll see how you can use it to simplify traditional event-based programming models.

You will learn:
• How and why you should replace events with reactive observables
• How to use RxJs with Angular client applications
• Some typical programming scenarios that Reactive programming makes easier

W16 Migrating your Javascript to Typescript

Introductory/Intermediate

GARVICE EAKINS

Wednesday, August 15, 3:15 - 4:30pm

In software it's rarely as simple as renaming a file extension to convert from one language to another. Yet in many ways that is the case for Typescript. So why isn't everyone migrating? The reality is, there is a lot more to consider when your system has legacy code and a business that can't sit and wait while the code is migrated. In this talk I'm going to walk through a strategy to successfully manage the migration, covering various scenarios you will encounter with ways to overcome them.

You will learn:
• What a successful migration looks like - laying the ground rules.
• How to execute the migration - a step by step process.
• Putting it all together - strategies to handle the not so straight-forward.

TH06 Introduction to Webpack

Intermediate

CHRIS KLUG

Thursday, August 16, 9:30 - 10:45am

As our web development code moves further and further towards the front-end, with the browser becoming a host for running complex programs, and not just show information, the need for managing our front-end resources becomes bigger...and harder. There are several ways to do this, but currently it seems as though webpack is the way that people are gravitating towards.

Unfortunately, getting started with webpack offers a bit of a hurdle to get over. Webpack configurations can look fairly complicated, and getting started can seem like a daunting task! But with large JavaScript frameworks like Angular and Aurelia buying into it, we developers do not have much choice. We have to understand it!

In this session, you will get a basic introduction to how webpack works, the concepts behind it, and how to get started playing around with it. The topic is too big to make you an expert in an hour, but hopefully you will walk out understanding concepts well enough to both start configuring your own bundles, as well as be able to understand most of the stuff you see in the more complicated bundle configurations you will run across.

You will learn:
• Understand what webpack actually does
• Understand how webpack simplifies the process of building web applications
• Understand how to configure webpack to do what is needed

TH11 JavaScript Patterns for the C# Developer

Intermediate

BEN HOELTING

Thursday, August 16, 11:00am - 12:15pm

One of the biggest learning curves for C# developers trying to learn JavaScript is getting over the lack of language features available in JavaScript. Simple keywords like Namespace, Class and Interface are not currently available in JavaScript. So how do you create these things and do inheritance in JavaScript? During this session, you'll discuss some of the key differences between JavaScript and C#. Then you will discuss the Design Patterns used by experienced JavaScript developers to write large, maintainable and scalable applications.

You will learn:
• The key differences between JavaScript and C#
• The design patterns that are applicable to both C# and JavaScript
• The additional design patterns needed to write good JavaScript

SESSION DESCRIPTIONS BY TRACK (continued)

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 ASP.NET Web Pages, it's been quite a ride. And just when you thought you knew the ropes, ASP.NET Core 2.0 ships, accelerating the change that is comparable in magnitude to the move from classic Active Server Pages to ASP.NET in the first place.

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

• Data-driven Web apps using ASP.NET Core

• SignalR and Reactive Extensions

• Authentication and authorization with ASP.NET Core

T06 Write Object-Oriented JavaScript with TypeScript

Intermediate

RACHEL APPEL

Tuesday, August 14, 9:30 - 10:45am

TypeScript is a typed superset of JavaScript that compiles to JavaScript. It's a free cross-platform, cross-browser, open source language that helps you build large scale enterprise applications with JavaScript. TypeScript is built so you can easily learn the language, and tools can easily work with it as well. If you're writing mission critical or large scale web apps, and need JavaScript, then TypeScript can work for you. In this session, you'll learn the basics of organizing and writing a web app using TypeScript so you can get started building large web apps today.

You will learn:
• About the TypeScript language
• How to alleviate JavaScript related development pain

T16 Build Data Driven Web Apps Using ASP.NET Core

Intermediate

RACHEL APPEL

Tuesday, August 14, 9:30 - 10:45am

Do you want to learn how to build a complete CRUD web application using the newest features in ASP.NET Core? During this session, you'll learn how to construct an ASP.NET Core app from start to finish. We'll look at building an EF Core model and use it in Razor Pages with Tag Helpers. You'll also learn how to create middleware, configure the app and its startup. Finally, you'll wrap up with security and deployment.

You will learn:
• How to build ASP.NET Core Apps
• How to build CRUD features into ASP.NET Core apps
• Publishing and Azure platform for ASP.NET core apps

W06 - Getting Pushy with SignalR and Reactive Extensions

Introductory / Intermediate

JIM WOOLEY

Wednesday, August 15, 9:30 - 10:45am

As systems increasingly demand more real-time updates, you need better ways of working with these live streams of information. Traditional pull models fail to provide the real-time responsiveness and scale needs that modern systems expect. Moving to a push model allows us to scale easier and react to new data as it becomes available. SignalR facilitates push notifications over HTTP to a variety of clients. The Reactive Extensions were designed to allow for asynchronous LINQ over push based collections. During this session, you'll learn how the synergy of these two technologies merge to make otherwise difficult tasks a pushover.

You will learn:
• How to use SignalR and SignalR Core to push streams of data over HTTP
• How to use Rx to simplify programming over streams of data
• How to combine SignalR and Rx to create elegant, maintainable coding APIs over otherwise complex real time data streams

TH01 The Whirlwind Tour of Authentication and Authorization with ASP.NET Core

CHRIS KLUG

Thursday, August 16, 8:00 - 9:15am

Authentication and authorization isn't a fun topic for most people. It is generally that thing that has to be there, but nobody really cares about. And on top of that, every time the requirements are a little different. And every time we have to figure out how to write all the plumbing to get it done properly. It is security after all.

In ASP.NET Core, Microsoft has made it fairly easy to get it all done. In most cases, it is only a few lines of code and some minor configuration, and you are up going. However, if you don't know the lines of code and the config, it can be hard.

This session will show you a whole heap of different types of authN and authZ being configured and used. There will be social logins, local logins, AD-based logins, and even token based authentication for SPAs—basically, everything you need to get up and running when it comes to authenticating your users in ASP.NET Core.

You will learn:
• How authentication works in ASP.NET Core 2.0
• How to easily set up your application to authenticate users using several different authentication providers

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CEO and Founder, Blue Badge Insights
Visual Studio Live! Conference Co-Chair

Andrew Brust is the founder and CEO of Blue Badge Insights. He advises data and analytics ISVs on winning in the market, solution providers on their service offerings, and customers on their analytics strategy. He writes about Big Data for ZDNet and co-chairs the Visual Studio Live! series of developer conferences. Andrew is an entrepreneur, a consulting veteran, a former analyst and research director, and a current Microsoft Regional Director and MVP. @andrewbrust

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 of IT and technology publishing, Desmond was an editor at PC World magazine for six years before launching an editorial consultancy that worked 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 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. His company Magenic (magenic.com) specializes in planning, designing, building, and maintaining an enterprise's most mission critical systems. For more information, go to lhotka.net. @RockyLhotka

David Ramel
Editor in Chief, Visual Studio Magazine and ADTMag.com

David Ramel is editor in chief of Visual Studio Magazine and Application Development Trends Magazine. He is an editor, writer and Web multimedia producer with 20 years of experience in mainstream journalism and within the information technology trade industry.

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 worldwide companies of all sizes 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. He's currently a Visual Studio MVP and co-author of "Professional Application Lifecycle Management with Visual Studio 2013" from Wrox Publishing. When he's not working, Brian enjoys spending time with his wife and two children. @brianrandell
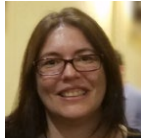
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– Brian Roos, Ultimate Medical Academy

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CONFERENCE SPEAKERS

Rachel Appel
Sr. Content Developer for ASP.NET, Microsoft

Rachel currently works for Microsoft on Azure Functions. She has been in the business of creating software for over 25 years, as an author, mentor, and speaker at top industry conferences such as Visual Studio Live!, Øredev, NDC and SDD. During her career, she 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 is in web development on the Microsoft stack, specifically Azure Functions, ASP.NET MVC, Web Forms, SignalR, C#, HTML, CSS, JavaScript, and TypeScript. Her hobbies include science, AI, reading, languages, and travel. @rachelappel

Mete Atamel
Developer Advocate, Google

Mete is a Developer Advocate at Google, currently focused on helping developers with Google Cloud Platform. As a long-time Java and C# developer, he likes to compare the two ecosystems. Prior to Google, he worked at Microsoft, Skype, Adobe, EMC, and Nokia building apps and services on various web, mobile and cloud platforms. Originally from Cyprus, he currently lives in Greenwich, not too far away from the prime meridian. @meteatamel

"THIS CONFERENCE INCLUDED SEVERAL GREAT SPEAKERS COVERING INTERESTING AND RELEVANT TOPICS."

– Tony Bagienski, ACES

Jason Bock
Practice Lead, Magenic

Jason Bock is a practice lead for Magenic (http://www.magenic.com) and a Microsoft MVP (C#). He has more than 20 years of experience working on a number of business applications using a diverse set of frameworks and languages such as C#, .NET, and JavaScript. He is the author of ".NET Development Using the Compiler API," "Metaprogramming in .NET," and "Applied .NET Attributes." He has written numerous articles on software development issues and 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. @jasonbock

Miguel Castro
President, Melvicorp LLC

Miguel Castro is an architect, developer, and trainer with more than 30 years of experience in the software industry. He's a Microsoft MVP for 12 years running, a Microsoft Regional Director, and a member of several of the Microsoft Insider groups. With a Microsoft background that goes all the way back to VB 1.0 (and QuickBasic in fact), Miguel speaks regularly at numerous user groups, code camps, and conferences in the U.S. and abroad. He has also been featured on several technology talk shows and is a PluralSight author. He specializes in architecture and development consulting and training with emphasis on Microsoft technologies. @miguelcastro67

Jeremy Clark
Developer Educator

Jeremy Clark makes developers better. By drawing on more than 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 has authored seven courses for Pluralsight, including "C# Interfaces," a course aimed at giving developers a clear understanding of abstraction. He loves speaking and has delivered more than 200 technical presentations in the last eight years throughout the United States and Europe. Jeremy lives in the northwestern United States with his lovely partner, two dogs, two cats, and a banjo. @jeremybytes

Justin Collier
Product Owner, SmartBear Software

As the Product Owner of Collaborator, Justin facilitates conversations to help teams better understand how to implement peer review and testing processes to improve the quality of software. He is responsible for product direction and market related activity. He spent eight years helping teams implement various software quality and software service improvements. He was previously Senior Sales Engineer at SmartBear. Justin served as Director of Services and Support, Sr. Sales Engineer and Product Manager at TriActive. He also served NetPlanner Systems, Inc. as an RF Engineer/Technician for more than seven years. @Justin_CCollier

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Garvice Eakins
Engineering Manager, Smartsheet

Garvice Eakins is a Software Engineering Lead at Smartsheet responsible for many things including the development and training of early career developers. He is an active proponent of women-in-tech, helping to ensure his teams employ the best developers no matter who they are. Garvice comes with many years of experience developing BI tools, data-pipelines, and process management software. His current passions include Typescript, reactive streams, and building cool stuff with existing APIs. In his free time he loves to cook, travel with his family, and build things with wood.

Christine Flora
Author, Speaker

I write, speak about and work with organizations on innovation and strategic business growth. I've spent my career helping companies solve the problems of running their businesses efficiently and intelligently through the thoughtful, strategic, process oriented use of complex technology solutions. My main focus has always been on the people and processes at the root of any system to leverage the strategic benefits obtained by integrating individual applications and information silos into cohesive end-to-end systems. I started my career with a global distributed software company as a developer for ERP business solutions. I don't do idle well and am voraciously curious so I divide my time among helping businesses grow in fun and healthy ways, app design and development, writing, and speaking and training engagements. @velvetdagger

Robert Green
Program Manager, Evangelism, Microsoft

Robert Green is a Program Manager Evangelism in the Developer Experience and Evangelism (DX) group at Microsoft. He focuses on Visual Studio and mobile development. Robert is the host of the Visual Studio Toolbox show on Channel 9. @rogreen_ms

Ben Hoelting
Senior Technologist, Aspenware

Ben Hoelting is a senior technologist with Aspenware and a C# MVP. 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 in 2001. This has given him the experience of a senior level full stack .NET developer. He is an experienced speaker and presents at the Visual Studio Live conferences all around the country. He loves sharing his experiences developing software. 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. Ben is also involved in the local .NET community and is the leader of the South Colorado .NET User Group. @benhnet

Billy Hollis
XAML slinger

Billy Hollis is a software designer and developer with a contrarian streak that often challenges conventional wisdom in the industry. He has a consulting practice in Nashville, Tennessee. He and his team focuses on user experience design (UX), advanced user interface development, rules-based architectures, and healthcare systems. He teaches design classes for UX and technical classes on XAML for the Universal Windows Platform and XAML for WPF. @billyhollis

Richard Hundhausen
Scrum / DevOps Trainer, President, Accentient

Richard is the president of Accentient, a company that helps software teams deliver better products by understanding and leveraging Scrum and DevOps. He is a certified Professional Scrum Trainer, Visual Studio and Development Technologies MVP, author of Professional Scrum Development with Microsoft Visual Studio, and co-creator of the Scaled Professional Scrum framework. As a software developer and consultant with over 30 years of experience, he understands that software is built and delivered by people and not by processes or tools. @rhundhausen

Becky Isserman
Solution Architect, Intergen

Becky Isserman has been in the technology field, since she graduated from college in 2005. She has the trifecta of Azure certifications. She has worked with technologies such as Azure, .Net, and SharePoint. She is entering her journey into the realm of Data Science by taking the Professional Data Program Certification Courses. She currently works for Intergen's Bellevue Office as a Solution Architect in Data Science. You can reach her at rebecca.isserman@gmail.com. @UndiscoveredDev

Scott Klein
CTO, Cloud and Devices

Scott Klein is CTO of Cloud and Devices with nearly two decades of experience working with Microsoft SQL Server. Prior to becoming CTO, Scott spent 6 years at Microsoft, traveling the globe as a technical evangelist training and speaking about SQL Server and Microsoft's Azure data services. Scott's recent focus has been on advanced analytics, including big data and IoT, providing real-world training to help bring intelligence to your data. Scott has authored several books, his latest which focuses on using Microsoft's

CONFERENCE SPEAKERS (continued)

IoT suite to process and analyze data. Scott is continuously striving and looking for ways to help developers and companies grok the wonderful world of data. @SQLScott

Chris Klug
Senior Software Developer, Tretton37

Chris Klug is an adrenaline loving, problem solver/creator who loves building things. He is currently working as a ninja/developer badass-as-a-service for a Swedish company called tretton37. Except for the days he spends at conferences, talking about doing things he is passionate about, and the days he fills with mountain biking, kiteboarding, or RC helicopter flying. For the last 15 or so years, he has been solving problems for customers. But if he could choose, he'd go to the beach and kiteboard every time. @ZeroKoll

Deborah Kurata
President, InStep Technologies

Deborah Kurata is a software developer, speaker and Pluralsight author with a focus on Angular and C#. For her work in support of software development and software developers, she has been recognized with the Microsoft Most Valuable Professional (MVP) award and is a Google Developer Expert (GDE). Follow her on twitter: @deborahkurata

Vishwas Lele
CTO, Applied Information Sciences

Vishwas Lele serves as CTO at Applied Information Sciences, Inc. He is responsible for assisting organizations in envisioning, designing and implementing enterprise solutions related cloud and mobility. Lele brings close to 28 years of experience and thought leadership to his position, and has been with AIS for 23 years. A noted industry speaker and author, he serves as the Microsoft Regional Director for Washington D.C. and is currently an Azure MVP. @vlele

Rockford Lhotka
CTO, Magenic

Rockford Lhotka is the CTO of Magenic, and 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. His company Magenic (magenic.com) specializes in planning, designing, building, and maintaining an enterprise's most mission critical systems. For more information, go to lhotka.net. @RockyLhotka

Leonard Lobel
CTO, Sleek Technologies, Inc.

Leonard Lobel is the chief technology officer and co-founder of Sleek Technologies, a New York-based development shop with an early adopter philosophy toward new technologies. He is also a principal consultant at Tallan, a Microsoft National Systems Integrator and Gold Competency Partner. He is also a Microsoft MVP, Data Platform. 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 has served as chief architect and lead developer for various organizations, ranging from small shops to high-profile clients. He is also a consultant, trainer, and frequent speaker at local usergroup meetings, VSLive!, Live! 360, SQL PASS, and other industry conferences. Lenni has also authored several MS Press books and Pluralsight courses on SQL Server programming. @lennilobel

James Montemagno
Principal Program Manager—Mobile Developer Tools, Microsoft

James Montemagno is a Principal Program Manager for Mobile Developer Tools at Microsoft. He has been a .NET developer since 2005, working in a wide range of industries including game development, printer software, and web services. Prior to becoming a Principal Program Manager, James was a professional mobile developer and has now been crafting apps since 2011 with Xamarin. 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, blogs code regularly on his personal blog http://www.montemagno.com, and co-hosts the weekly development podcast Merge Conflict http://mergeconflict.fm.

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.
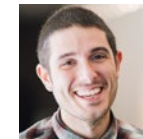
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>
> *– Bill Karpin, Smart Button*

CONFERENCE SPEAKERS (continued)

Brian Randell
Partner, MCW Technologies

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 worldwide companies of all sizes 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. He's currently a Visual Studio MVP and co-author of "Professional Application Lifecycle Management with Visual Studio 2013" from Wrox Publishing. When he's not working, Brian enjoys spending time with his wife and two children. @brianrandell

Paul Sheriff
Author / Instructor

Paul has over thirty years of experience architecting information systems and his expertise is in much demand from Fortune 500 companies. Paul is a top-notch instructor, a pluralsight author, has published 200+ articles, and authored over 14 books on topics ranging from C#, SQL Server, and many .NET technologies. Paul speaks at many different conferences and user groups around the world.

Matthew Soucoup
Senior Cloud Developer Advocate - Microsoft

Matthew Soucoup is a Senior Cloud Developer Advocate at Microsoft spreading the love of integrating Azure with Xamarin. Matt is also a Pluralsight author, a Telerik Developer Expert and prior to joining Microsoft a founder of a successful consulting firm targeting .NET and web development. Matt loves sharing his passion and insight for mobile and cloud development by blogging, writing articles, and presenting at conferences such as Xamarin

Evolve, CodeMash, That Conference, and Mobile Era. When not behind a computer screen, Matt gardens hot peppers, rides bikes, and loves Wisconsin micro-brews and cheese. Follow Matt on Twitter at @codemillmatt and his personal blog at codemilltech.com.

Adam Tuliper
Principal Software Engineer, Microsoft

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, pharmaceutical, manufacturing, technology, and public sector fields for more than 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.

Abel Wang
Senior Cloud Developer Advocate, Microsoft

Abel Wang is a Senior Cloud Developer Advocate specializing in DevOps and Azure with a background in application development. He is currently part of Donovan Brown's League of Extraordinary Cloud DevOps Advocates. Before joining Microsoft, Abel spent seven years as a Process Consultant and a Certified Scrum Master helping customers globally develop solutions using agile practices and Team Foundation Server. Prior to that, Abel founded and sold his own software company. When not working, Abel is either writing code (yes, that's what he does for fun), playing his guitar or training for The Great Wall Marathon. @abelsquidhead

Michael Washington
Founder, AIHelpWebsite.com

Michael Washington is the founder of AiHelpWebsite.com. He is a .NET, C#, and Angular programmer. He has extensive knowledge in process improvement, billing systems, and student information systems. He is a Microsoft MVP. He is the author of numerous books including Azure Machine Learning Studio For The Non-Data Scientist and An Introduction to the Microsoft Bot Framework. Michael has a son, Zachary and resides in Los Angeles with his wife Valerie. @ADefWebserver

Matt Winkler
Group Program Manager, Machine Learning, Microsoft

Matt is the Group Program Manager for Machine Learning at Microsoft, leading the program management team crafting services, platforms, and tools for developers to build smarter apps. Matt has been at Microsoft for 12 years, focused on developer tools and platforms, with an emphasis on the cloud, big data, and advanced analytics for the last 7 years. Matt has a bachelors degree from Denison University, and an MBA from Washington University in St. Louis. When not working, Matt can usually be found skiing, hiking, or woodworking with his family.

Jim Wooley
Solution Architect, Slalom Consulting

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. @Jimwooley

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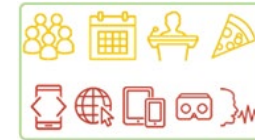
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The .NET Developers Association is an Eastside community oriented group aimed at furthering the education of .NET developers. www.meetup.com/NET-Developers-Association

UserGroup.tv

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VENUE & TRAVEL

Visual Studio Live! heads back to Redmond, WA for five days of unbiased education on the Microsoft Platform.

CONFERENCE LOCATION
Microsoft Headquarters
Microsoft Conference Center (Building 33)
16070 N.E. 36th Way
Redmond, WA 98052
Business Center Desk: 425.706.0033

CONFERENCE HOTEL
Hyatt Regency Bellevue
900 Bellevue Way N.E.
Bellevue, WA 98004

Special attendee rate: $237*
Book by: July 20, 2018

Book your room online or call Reservations at 888.421.1442 and ask for the Visual Studio Live! Room Block. The offer is subject to room availability, so make sure to book early.

Rooms at the Hyatt Regency Bellevue in the Visual Studio Live! Room Block also includes the following:

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Complimentary access to the Hyatt Stay Fit gym and heated lap pool

* Rooms are subject to availability and applicable state, local and occupancy taxes.

Travel

CAR RENTAL DISCOUNT
Avis Rent-a-Car is offering a discount on car rental for Visual Studio Live! Redmond attendees. To receive the discounted rates, call Avis at 800.331.1600 and use the Avis Worldwide Discount (AWD) number D005872, or click here to make your reservation online.

SHUTTLE SERVICE TO AND FROM THE MICROSOFT CAMPUS
Visual Studio Live! will be providing daily complimentary shuttle transportation between the Hyatt Regency Bellevue and the Microsoft Campus. This shuttle service will be available to all attendees with a valid conference badge.

AIRPORT TRANSPORTATION
Area hotels do not provide airport transportation, but there are several options:

Shuttle Express
425.981.7000 Reservations to SeaTac Airport are required. Book online or call 425.981.7000.

Taxi or Town Car
One way fare averages $55-$60.

PARKING AT MICROSOFT CONFERENCE CENTER:
Complimentary parking is available in the parking garages below and adjacent to the Microsoft Conference Center (Building 33).

PARKING AT THE HYATT REGENCY BELLEVUE
Self-parking is $27.50 per day for Sunday night through Thursday night stays (plus applicable taxes) Friday and Saturday night stays are complimentary (8pm Friday until 12am Sunday).

Valet Parking at the Hyatt Regency Bellevue is $36.00 per day (plus applicable taxes).

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– Nathan Ertner, Platt Electric Supply

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Signing up 3 or more?
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– John Roy, AATI

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– Walter Pierce, Snagajob

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