

Visual Studio **LIVE!**

EXPERT SOLUTIONS FOR ENTERPRISE DEVELOPERS

San Diego

Your Code Powers the World.
Our Training Powers You.

30th ANNIVERSARY
VSLive!
1993 - 2023

AUGUST 7-11, 2023
SHERATON SAN DIEGO HOTEL & MARINA
SAN DIEGO, CA

IN-DEPTH
TECHNICAL
CONTENT
ON:



Modern Software
Engineering



Cloud, Containers
and Microservices



Cutting-Edge AI



Data & Analytics



Developing
New Experiences



Human Factors
in Engineering



The Core of .NET



Full Stack Web
Development

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CONTENTS

- 3** Co-chair Message
- 4** Ten Reasons to Attend
- 5** Fun Stuff & Activities
- 6** Agenda
- 9** Keynote Sessions
- 10** Hands-On Labs
- 11** Workshops

SESSION LISTINGS BY TRACK:

- 11** Modern Software Engineering
 - 12** Cloud, Containers and Microservices
 - 13** Cutting-Edge AI
 - 14** Data & Analytics
 - 15** Developing New Experiences
 - 16** Human Factors in Engineering
 - 17** The Core of .NET
 - 18** Full Stack Web Development
-
- 20** Conference Chairs & Speakers
 - 21** Venue & Travel
 - 22** Packages
 - 23** Discounts
 - 24** 2023 Upcoming Events



A MESSAGE FROM THE CONFERENCE CO-CHAIRS

SAN DIEGO IS A FANTASTIC CITY, WITH THE AMAZING GASLAMP QUARTER, THE BEAUTIFUL BAY, LOTS OF SUN, AND VISUAL STUDIO LIVE!, AUGUST 7-11 2023.

Our industry moves fast, and the rate of change isn't slowing, especially with recent advances in AI technologies. Visual Studio Live! San Diego is here to support you with a whole new array of educational sessions and social events to re-energize you.

We're Andrew Brust, Angela Dugan, Rockford Lhotka, and Brian Randell, and as Conference Co-Chairs for Visual Studio Live! in 2023, we'd like to personally invite you to join us in person at the Sheraton San Diego Hotel: a great opportunity to have two-way conversations about the latest tools and technologies with your peers and some of the finest expert speakers in the business. In our experience, this conference format delivers the highest level of value, and we're ready for it! Our cohort of technical speakers will be ready to help you know what's ready for production, what's not, and provide their expert advice and knowledge on how to build the best solutions and experiences for your customers.

Visual Studio Live! in San Diego gives you a rich multi-track event with great 75-minute breakout sessions, Fast Focus sessions for quick hits on relevant topics, and deep dives. The week starts with a full day of options for hands-on-lab training and ends with a full day of deep workshops, covering a wide array of development technologies for everyone. From AI to .NET to databases, from team building to the latest mobile, Web, cloud, and

desktop technologies - we've got you covered. Our speakers will present in-depth sessions on data analytics, serverless, and other cloud technologies with experience on Windows, macOS, Linux, and mobile platforms. We have picked every hands-on-lab, workshop, deep dive, and session with the goal of transferring current, relevant knowledge to you so that you can be a better developer, team member, and leader. We hope you will return from this event energized and ready to help your organization succeed in this ever-changing world.

You'll find coverage on AI, databases, data analytics, C#, GitHub, and Azure. If the Web is more your style, you'll find sessions on TypeScript, Angular, and Blazor on the client, as well as ASP.NET Core on the server. Feeling confused about .NET? We've got sessions to clear it up. Want to improve your DevOps processes, or boost your team's agility? We've got coverage of numerous topics to help you do just that. Want to be an expert on cloud transformation? We've got sessions for that too! Overall, our speakers will answer your questions with practical guidance on native client development, Web, database, and more.

Our workshop content provides coverage of Blazor and how to ship faster and more securely using Azure PaaS. Want to get your hands dirty? We've got great all-day hands-on-labs covering how to build ASP.NET Core apps, leverage async and parallel programming in C#, and effective SCRUM. Hungry for even more? We've also got deep dives into MAUI and building web services in ASP.NET Core. Our sessions, hands-on-labs, and workshops

drill deep into the subjects you need to master and the fundamentals that are always important.

Our industry continues its 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! San Diego and get the tools to help yourself grow.

We hope to see you there!

VISUAL STUDIO LIVE! CONFERENCE CO-CHAIRS



Andrew Brust
Founder & CEO,
Blue Badge Insights



Angela Dugan
Solutions Director,
3Cloud Solutions



Rockford Lhotka
VP of Strategy,
Xpirit USA



Brian Randell
Product Marketing Director,
GitHub

TEN REASONS TO ATTEND VISUAL STUDIO LIVE! 2023

10

BACK BY POPULAR DEMAND:

HANDS-ON LEARNING. AGAIN, at VSLive! This year there's another full day of learning with the Monday HANDS-ON LABS. Bring your laptop and learn by doing!

9

WE'VE NEVER SKIMPED ON CONTENT.

VSLive! is known for being a technically-focused conference, with up to 5 full days of educational sessions on hot topics like .NET 7 and .NET MAUI, ChatGPT, Blazor, ASP.NET Core, ML.NET, Microservices, SQL Server 2022, C#, Azure, and so much more....

8

RESPECT THE PAST; CODE THE FUTURE.

Get relevant, immediately usable training on what's happening on the developer landscape now, and learn what's coming next to get out ahead of the competition.

7

NETWORKING IS KEY. 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, all week long!

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 events.

5

IT'S ALWAYS BEEN ABOUT PERSPECTIVE.

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.

4

BE READY FOR NOW & NEXT. Get up to speed on what's happening on the .NET developer landscape now, and learn what's coming next to get out ahead of the competition. Keep yourself and your business competitive and future-ready with training on Microsoft Visual Studio 2022, .NET 7, DevOps, MAUI, JavaScript, ChatGPT, TypeScript, Angular, Blazor, modern data warehouse technology, and so much more....

3

IT'S SUNNY SAN DIEGO! Code by day and enjoy all the sun, beach, nightlife, delicious cuisine, and Southern California hospitality San Diego has to offer at our headquarters, the Sheraton San Diego Hotel.

2

THE CHOICE IS YOURS. With so many sessions, workshops, and hands-on labs 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!

1

30 YEARS OF CODING INNOVATION!

For over 30 years, Visual Studio Live! (VSLive!) has been THE trusted resource for .NET developer-focused education and training! We are proud to have served tens of thousands, giving them the training and education they've needed since 1993.

THE FUN STUFF: VISUAL STUDIO LIVE! SAN DIEGO EVENTS & ACTIVITIES

YOUR ATTENDANCE AT VISUAL STUDIO LIVE! is about learning from your peers as well as the experts; make the most of your time with us and add these events and activities to your itinerary!

MIX & MINGLE IN OLD TOWN SAN DIEGO

Monday, August 7

This is your opportunity to join us in Old Town San Diego to meet fellow attendees and start friendships that can last for the week or even longer. Join us to mix and mingle with other conference attendees and speakers for a casual no-host mixer. Enjoy light appetizers provided by VSLive! while you get to know your fellow attendees and take in the exciting San Diego views. Everyone is responsible for their own beverages.

SAN DIEGO WATERFRONT WELCOME RECEPTION

Tuesday, August 8

Join us on the lawn to enjoy panoramic views of the San Diego Bay and celebrate being in sunny Southern California and the start of Visual Studio Live! Attend the welcome reception held on the Sheraton Eventide Gardens to enjoy sunshine, drinks, snacks, games, and music while you relax, unwind, and network with fellow attendees, exhibitors, and speakers after a long day of learning.

Take advantage of the famous San Diego weather to play lawn games like Giant Jenga, Connect 4, Ladder Toss and Corn Hole with new friends. Take in views of the bay and the enjoy the beach vibes with our musical entertainment.

TABLE TOPIC LUNCH

Wednesday, August 9

Join other attendees at lunch to share ideas, talk about the issues of the day, and maybe solve a few. While you enjoy lunch, you can find and connect with other like-minded people at tables designated for certain languages, technologies, and interests.

We will also have designated speaker tables - noted with the speakers' name. Join your favorite speaker for a lunchtime discussion or to follow up on any questions from a session.

VSLIVE! SAN DIEGO SUNSET HARBOR CRUISE

Wednesday, August 9

Pre-registration & \$20 Confirmation Fee Required

Come see the sights, sunset, and skyline of San Diego aboard the VSLive! harbor tour. Relax while you enjoy a fully-narrated tour of the sights of San Diego by water, view the Coronado Bridge, take a look at the US Naval fleet, hopefully spot the harbor's resident sea lions, and enjoy it all as the sun sets over the water. Our expert guide will entertain you with local insights and panoramic views that connect San Diego's past, present, and future. Light appetizers are included and beverages are available for purchase.



I LIKED THAT THE ATTENDEE LIST WAS NOT MONSTROUS. ALLOWED FOR ENOUGH NETWORKING BUT ALSO ENOUGH FOCUS FROM PRESENTERS.

— 2022 Visual Studio Live! San Diego attendee

AGENDA-AT-A-GLANCE

Modern Software Engineering	Cloud, Containers and Microservices	Cutting-Edge AI	Data & Analytics	Developing New Experiences	Human Factors in Engineering	The Core of .NET	Full Stack Web Development
START TIME	END TIME	Visual Studio Live! Pre-Conference Hands-On Labs: Monday, August 7, 2023 <i>(Separate entry fee required)</i>					
8:00 AM	9:00 AM	Pre-Conference Hands-On Labs Registration • Coffee and Morning Pastries					
9:00 AM	1:00 PM	M01 Hands-on Lab: Develop an ASP.NET Core App with EF Core in a Day - <i>Philip Japikse</i>		M02 Hands-on Lab: Asynchronous and Parallel Programming in C# - <i>Jeremy Clark</i>		M03 Hands-on Lab: Scrum is Not the Point - Focusing on Done & Delivery in Scrum - <i>Benjamin Day</i>	
1:00 PM	2:00 PM	Lunch					
2:00 PM	6:00 PM	M01 Hands-on Lab: Continued		M02 Hands-on Lab: Continued		M03 Hands-on Lab: Continued	
7:00 PM	8:30 PM	Mix & Mingle @ VSLive!					
START TIME	END TIME	Visual Studio Live! Day 1: Tuesday, August 8, 2023					
7:00 AM	8:00 AM	Registration • Coffee and Morning Pastries					
8:00 AM	9:15 AM	T01 ASP.NET Basics for Experts	T02 Useful New-ish Features in .NET/C# - <i>Deborah Kurata</i>		T03 Azure 101 - <i>Denny Cherry</i>	T04 Unveiling the Power of ChatGPT and Large Language Models: A Comprehensive Guide - <i>Brian Randel</i>	
9:30 AM	10:45 AM	T05 RxJS in Angular: Working with Data - <i>Deborah Kurata</i>	T06 Building Cloud-Ready Applications in .NET		T07 Choosing the Right Data Store - An Overview of Azure Data Platform Choices - <i>Denny Cherry</i>	T08 Generate Art with GitHub Codespaces - <i>Rizel Scarlett</i>	
11:00 AM	12:00 PM	KEYNOTE: TO BE ANNOUNCED					
12:00 PM	1:00 PM	Lunch					
1:00 PM	1:30 PM	Dessert Break • Visit Exhibitors					
1:30 PM	2:45 PM	T09 Deep Dive: Web Services with ASP.NET Core - <i>Philip Japikse</i>	T10 How to Effectively Communicate Technical Ideas to Non-Technical Audiences - <i>Amber Vanderburg</i>		T11 Prompt Engineering for Absolute Beginners - <i>Prashant Bhoyar</i>	T12 Level Up with Copilot - <i>Rizel Scarlett</i>	
3:00 PM	4:15 PM		T13 How to Effectively Move from Ideation to Implementation - <i>Amber Vanderburg</i>		T14 ChatGPT, Azure OpenAI, and Cognitive Services : Better Together - <i>Prashant Bhoyar</i>	T15 Get Func-y: Understanding Delegates in C# - <i>Jeremy Clark</i>	
4:15 PM	5:30 PM	Welcome Reception & Trivia Tuesday					

Sessions and speakers subject to change.

 Microsoft session

AGENDA-AT-A-GLANCE *(continued)*

Modern Software Engineering		Cloud, Containers and Microservices		Cutting-Edge AI		Data & Analytics		Developing New Experiences		Human Factors in Engineering		The Core of .NET		Full Stack Web Development	
START TIME		END TIME		Visual Studio Live! Day 2: Wednesday, August 9, 2023											
7:30 AM		8:00 AM		Registration • Coffee and Morning Pastries											
8:00 AM		9:15 AM		W01 Micro Frontends and Module Federation - <i>Daniel Ostrovsky</i>			W02 Practical Internet of Things for the Microsoft Developer - <i>Eric D. Boyd</i>			W03 What's New for Developers in SQL Server 2022 - <i>Leonard Lobel</i>			W04 To Be Announced		
9:30 AM		10:45 AM		W05 Introduction to Blazor - <i>Rockford Lhotka</i>			W06 Create Intelligent Bots with the Power Platform, Azure, and Cognitive Services - <i>Eric D. Boyd</i>			W07 GPT-3 and Friends, Large AI Models that will Change Our Life - <i>Andreas Erben</i>			W08 To Be Announced		
11:00 AM		12:00 PM		GENERAL SESSION: TO BE ANNOUNCED											
12:00 PM		1:00 PM		Table Topic Lunch											
1:00 PM		1:30 PM		Dessert Break • Visit Exhibitors											
1:30 PM		1:50 PM		W09 Fast Focus: Getting .NET Interactive Notebooks - <i>Jason Bock</i>			W10 Fast Focus: Using Blazor in MAUI - <i>Rockford Lhotka</i>			W11 Fast Focus: API Versioning - <i>Philip Japikse</i>			W12 Fast Focus: No, ChatGPT and Bard Won't Take Your Job - <i>Brian Randell</i>		
2:00 PM		2:20 PM		W13 Fast Focus: 15 Minutes Could Save You 15% Or More on Your Azure Bill - <i>Esteban Garcia</i>			W14 Fast Focus: Pimping Your GitHub Codespace - <i>Josh Johanning</i>			W15 Fast Focus: Database Blockchain Security with SQL Server 2022 Ledger - <i>Leonard Lobel</i>			W16 Fast Focus: Inside Azure OpenAI Service - <i>Eric D. Boyd</i>		
2:30 PM		3:45 PM		W17 Building Enterprise Blazor Apps using CSLA .NET - <i>Rockford Lhotka</i>			W18 Infrastructure as Code: Collaborate and Deploy to Azure with Confidence - <i>Esteban Garcia</i>			W19 Confidential Computing with SQL Server Always Encrypted and Secure Enclaves - <i>Leonard Lobel</i>			W20 Building, Testing, and Releasing: The Importance of Continuous Delivery - <i>Joanna Wyganowska</i>		
4:00 PM		5:15 PM		W21 Typescript Meta-Programming from 0 to 100 - <i>Daniel Ostrovsky</i>			W22 I'll Get Back to You: Task, Await, and Asynchronous Methods in C# - <i>Jeremy Clark</i>			W23 Leveraging WinUI3 for Business Desktop Applications - <i>Billy Hollis</i>			W24 Creating Reusable CI/CD with Azure DevOps Pipeline Templating - <i>Josh Johanning</i>		
After Hours Fun		VSLive! San Diego Sunset Harbor Cruise													

Sessions and speakers subject to change.

 Microsoft session



AGENDA-AT-A-GLANCE *(continued)*

Modern Software Engineering		Cloud, Containers and Microservices		Cutting-Edge AI		Data & Analytics		Developing New Experiences		Human Factors in Engineering		The Core of .NET		Full Stack Web Development		
START TIME		END TIME		Visual Studio Live! Day 3: Thursday, August 10, 2023												
7:30 AM		8:00 AM		Registration • Coffee and Morning Pastries												
8:00 AM		9:15 AM		TH01 To Be Announced		TH02 WebAssembly in the Cloud - Jon Flanders			TH03 Beyond ChatGPT - Imagine Your Mind Blown - Andreas Erben			TH04 How to Fix a Failing Project - Benjamin Day				
9:30 AM		10:45 AM		TH05 Dependencies Demystified - Jason Bock			TH06 Use OpenAPI to Document and Generate Your Services and Clients - Jon Flanders			TH07 Injecting Innovation into Applications through Design - Billy Hollis			TH08 Busy Manager's Guide to Performance Management - Ted Neward			
11:00 AM		12:15 PM		TH09 What's New in .NET 7 APIs - Jason Bock			TH10 DevOps for the SQL Server Database - Brian Randell			TH11 "Wouldn't It Be Cool" and Other Bad Design Approaches - Billy Hollis			TH12 Top 10 Ways to Go from Good to Great Scrum Master - Benjamin Day			
12:15 PM		1:15 PM		Lunch												
1:15 PM		2:30 PM		TH13 Creating Business Applications using Blazor - Michael Washington			TH14 How to Implement Developer-optimized Application Security - Josh Johanning			TH15 Busy Manager's Guide to Successful Meetings - Ted Neward			TH16 Deep Dive with MAUI - Sam Basu			
2:45 PM		4:00 PM		TH17 Creating Azure OpenAI Applications - Michael Washington			TH18 Where the Rubber Meets the Road with Dev and Ops Teams - Joanna Wyganowska			TH19 A Day in the Life of a Container - Esteban Garcia						
START TIME		END TIME		Visual Studio Live! Post-Conference Workshops: Friday, August 11, 2023 (Separate entry fee required)												
7:30 AM		8:00 AM		Post-Conference Workshop Registration • Coffee and Morning Pastries												
8:00 AM		12:00 PM		F01 Workshop: Ship Faster, More Securely with Azure PaaS - Brian Randell						F02 Workshop: Microsoft Blazor Top to Bottom - Jason Bock & Rockford Lhotka						
12:00 PM		1:00 PM		Lunch												
1:00 PM		5:00 PM		F01 Workshop: Continued						F02 Fast Focus: Continued						

Sessions and speakers subject to change.

 Microsoft session

FULL-DAY HANDS-ON LABS *(Separate entry fee required)*

Visual Studio Live! San Diego offers three instructor-led, pre-conference Hands-On Labs to help you take your dev skills to a new level. Get intensive, in-depth training to complete your conference experience.

Topics covered include:

- ASP.NET Core App with EF Core
- Asynchronous and Parallel Programming in C#
- Done & Delivery in Scrum

These labs are presented on a Bring Your Own Laptop (BYOL) basis.

M01

Hands-on Lab: Develop an ASP.NET Core App with EF Core in a Day

Intermediate

PHILIP JAPIKSE

Monday, August 7, 9:00am - 6:00pm

Interested in ASP.NET Core and Entity Framework Core, but not sure where to start? Start here with an all-day Hands-on Lab where you will build a complete solution using the latest development technology from Microsoft. You will build a data access library using Entity Framework Core, complete with repos and migrations. Next, you will build an ASP.NET Core web application, leveraging all of the latest that ASP.NET Core has to offer, including Tag Helpers, View Components, Dependency Injection, and more!

You will learn:

- Learn ASP.NET Core Web Applications (MVC)
- Learn EF Core
- Build an application in a day!

Attendee Requirements:

You must provide your own laptop computer (Windows or Mac) for this hands-on lab.

All other laptop requirements will be provided to attendees 2 weeks prior to the conference.

M02

Hands-on Lab: Asynchronous and Parallel Programming in C#

Intermediate

JEREMY CLARK

Monday, August 7, 9:00am - 6:00pm

Asynchronous programming is a critical skill to take full advantage of today's multi-core systems. But async programming brings its own set of issues. In this workshop, we'll work through some of those issues and get comfortable using parts of the .NET Task Parallel Library (TPL).

We'll start by calling asynchronous methods using the Task Asynchronous Pattern (TAP), including how to handle exceptions and cancellation. With this in hand, we'll look at creating our own asynchronous methods and methods that use asynchronous libraries. Along the way, we'll see how to avoid deadlocks, how to isolate our code for easier async, and why it's important to stay away from "async void".

In addition, we'll look at some patterns for running code in parallel, including using Parallel.ForEachAsync, channels, and other techniques. We'll see pros and cons so that we can use the right pattern for a particular problem.

Throughout the day, we'll go hands-on with lab exercises to put these skills into practice.

Objectives:

- Use asynchronous methods with Task and await
- Create asynchronous methods and libraries
- How to avoid deadlocks and other pitfalls
- Understand different parallel programming techniques

Pre-Requisites

Basic understanding of C# and object-oriented programming (classes, inheritance, methods, and properties). No prior experience with asynchronous programming is necessary; we'll take care of that as we go.

You will learn:

- How to use asynchronous methods with Task and await
- How to avoid deadlocks and other pitfalls
- To understand different parallel programming techniques

Attendee Requirements:

You must provide your own laptop computer (Windows or Mac) for this hands-on lab.

All other laptop requirements will be provided to attendees 2 weeks prior to the conference.

M03

Hands-on Lab: Scrum is Not the Point - Focusing on Done & Delivery in Scrum

Intermediate / Advanced

BENJAMIN DAY

Monday, August 7, 9:00am - 6:00pm

Scrum is not the point. I know. That's an odd thing to say in the abstract for a Scrum workshop, huh? It's true though. The Scrum process is a tool for helping to deliver great, done, working software. The point is delivering the 'done software' not simply doing Scrum.

In this hands-on workshop, we'll teach you Scrum from a whole new perspective. We'll start by reviewing the role, events, and artifacts of Scrum with an emphasis on how those things help you to actually deliver software. From there, we'll talk about ways to get more out of your team by minimizing work in progress and focusing on decreasing your batch size. Along the way, we'll talk about communication strategies, metrics, and how to predict the future.

If you're new to Scrum & Agile or even if you've been doing Scrum for years, this workshop will give you what you need to deliver using Scrum.

You will learn:

- What are the pieces of Scrum? Why do you need those pieces? How do they help you to deliver?
- How do you create and manage requirements so that it makes sense to your bosses, customers, and stakeholders? Why does that matter?
- How do you predict the future using Velocity, Throughput, Lead Time, and Cycle Time?

Attendee Requirements:

You must provide your own laptop computer (Windows or Mac) for this hands-on lab.

All other laptop requirements will be provided to attendees 2 weeks prior to the conference.

FULL-DAY WORKSHOPS

Go in-depth with these Visual Studio Live! San Diego Post-Conference workshops:

Topics covered include:

- Azure PaaS
- Microsoft Blazor

F01

Workshop: Ship Faster, More Securely with Azure PaaS

Intermediate

BRIAN RANDELL

Friday, August 11, 8:00am - 5:00pm

In today's fast-paced business environment, organizations must deliver their applications quickly and securely. Azure Platform-as-a-Service (PaaS) provides a scalable, reliable, and cost-effective solution for developing and deploying web apps, web services, and databases. This workshop will demonstrate how you can leverage Azure PaaS to ship your applications faster and more securely.

In this workshop, you will learn how to build, deploy, and manage web apps, web services, and databases using Azure PaaS with Brian. While examples will be presented using .NET 6 & 7 with SQL Server, the principles you'll learn will apply to any modern language and database supported by Azure. You will also learn how to ensure the security of your applications and monitor their performance using Azure PaaS. All of what you see will cover the single developer inner loop using Visual Studio 2022 while you'll see good DevOps practices with GitHub Enterprise Cloud and Azure DevOps Services for the outer team loop.

The workshop will cover the following topics:

1. Introduction to Azure PaaS
 - Overview of Azure PaaS
 - Advantages of Azure PaaS
2. Building Web Apps and Web Services with Azure App Service and Azure Functions
 - Creating a web app
 - Deploying a web app
 - Configuring a web service
 - Deploying a web service
 - Consuming a web service

3. Building Databases with Azure SQL Database

- Creating and configuring a database
- Connecting to a database
- Migrating data to a database

4. Securing Your Applications with Azure PaaS

- Overview of Azure security features
- Implementing authentication and authorization
- Securing data in transit and at rest

5. Monitoring Your Applications with the Azure Monitor family

- Setting up monitoring tools
- Analyzing application performance
- Troubleshooting common issues

The workshop will consist of a mix of presentation slides and lots of demos. Brian will be available to answer questions and provide guidance throughout the day. By the end of this workshop, you will have a solid understanding of how to use Azure PaaS to build, deploy, and manage web apps, web services, and databases. You will also have a good understanding of how to ensure the security and performance of your applications and how to use good DevOps practices to streamline your development and deployment processes.

You will learn:

- Attendees will learn how to create and deploy web apps, web services, and databases using Azure PaaS, which provides a scalable, reliable, and cost-effective solution for developing and deploying applications in the cloud
- Attendees will gain knowledge on how to implement security features such as authentication and authorization, as well as secure data in transit and at rest to ensure the security of their applications on Azure PaaS
- Attendees will also learn how to use good DevOps practices like continuous integration and deployment, automation testing and quality control to streamline development and deployment processes for their applications

F02

Workshop: Microsoft Blazor Top to Bottom

Intermediate

JASON BOCK & ROCKFORD LHOTKA

Friday, August 11, 8:00am - 5:00pm

Blazor (Browser + Razor) has redefined the current landscape for web developers, allowing C# and .NET back into the modern web development picture. Leveraging WebAssembly to allow running .NET code in the browser, we can use the same C# language on the client and the server to build our modern web applications. At the core of Blazor is the ability to compose our web application using reusable components just like the modern browser frameworks.

Join experts in Blazor, WebAssembly, and enterprise development as they discuss why and when to use Blazor. They will give you everything you need to know to build Blazor apps, use the Razor component model, data and event binding, styling the UI, and building maintainable code. You will learn about Blazor server, WebAssembly, and MAUI hybrid apps, and how to implement authentication and authorization. WebAssembly and Blazor are incredibly powerful technologies and may be the future of web development. Come to this workshop to form your own view on this exciting platform.

You will learn:

- The basics of Blazor app dev and Blazor features
- The various ways to host and run Blazor apps
- How to implement authentication and authorization

THE INFORMATION WAS PRESENTED IN A LEVEL SUITED FOR MY ABILITIES.

- 2022 Visual Studio Live! San Diego attendee

SESSION DESCRIPTIONS BY TRACK



MODERN SOFTWARE ENGINEERING

The heart of Modern Software Engineering is building and delivering software faster, reducing complexity and risk, all without sacrificing quality – quality of the software AND quality of the experience of everyone involved in building and delivering that software. The list of technical strategies, tools, and leading practices that enable modern software engineering is long and are evolving rapidly. This track will help you stay on top of leading DevOps, DevSecOps, and platform engineering practices, tools, and strategies. Expect us to dig in on providing remote access, robust environments, and automation that is secure, easy to access, and readily available.

You'll find coverage of:

- Generate art with GitHub Codespaces
- Level Up with Copilot
- DevOps is Dead, Long Live DevOps! (Essential DevOps)
- Fast Focus: Pimping your GitHub Codespace
- Building, Testing, and Releasing: The Importance of Continuous Delivery
- Creating Reusable CI/CD with Azure DevOps Pipeline Templating
- DevOps for the SQL Server Database
- How to Implement Developer-optimized Application Security
- Where the Rubber Meets the Road with Dev and Ops Teams

T08

Generate Art with GitHub Codespaces

Introductory

RIZEL SCARLETT

Tuesday, August 8, 9:30 - 10:45am

You will learn:

- A beginner's overview to GitHub Codespaces
- How to configure Codespaces for your development environment
- How to generate art with p5.js and stable diffusion

T12

Level Up with Copilot

Introductory

RIZEL SCARLETT

Tuesday, August 8, 1:30 - 2:45pm

You will learn:

- About GitHub Copilot
- How GitHub Copilot works
- How developers can get the most out of GitHub Copilot

W14

Fast Focus: Pimping Your GitHub Codespace

Introductory

JOSH JOHANNING

Wednesday, August 9, 2:00 - 2:20pm

You will learn:

- GitHub Codespaces
- About managing and replicating Dotfiles between local/Codespaces
- VS Code Settings Sync

W20

Building, Testing, and Releasing: The Importance of Continuous Delivery

Intermediate

JOANNA WYGANOWSKA

Wednesday, August 9, 2:30 - 3:45pm

You will learn:

- How to manage organizational challenges that arise from CD practices
- How teams can navigate the process and technical challenges that CD presents
- How to build the right deployment pipeline for your organization

W24

Creating Reusable CI/CD with Azure DevOps Pipeline Templating

Advanced

JOSH JOHANNING

Wednesday, August 9, 4:00 - 5:15pm

Do you find yourself copy and pasting the same YAML code between all of your pipelines in Azure DevOps? Reuse a lot of the same variables in different pipelines? With the power of templating, we can be a lot more efficient here. In this session, I will discuss each type of template we can use such as stage, job, step, and variable templates. I will also show how to do more advanced template tasks, such as looping, with template expressions.

You will learn:

- About Azure DevOps / Azure Pipelines templates
- Best patterns for use (versioning, parameters, etc.)
- Advanced templating syntax

SESSION DESCRIPTIONS BY TRACK *(continued)*

TH10

DevOps for the SQL Server Database

Introductory / Intermediate

BRIAN RANDELL

Thursday, August 10, 11:00am - 12:15pm

You will learn:

- Why you need DevOps for your database
- How to define good developer hygiene around database changes
- How to use Microsoft, GitHub, and Redgate tools to implement the DevOps process

TH14

How to Implement Developer-optimized Application Security

Intermediate

JOSH JOHANNING

Thursday, August 10, 1:15 - 2:30pm

You will learn:

- How to design and implement a developer-optimized application security program
- How to get started with GitHub Advanced Security (i.e., how to enable it, run your own tests, and review results)
- Remediation best practices

TH18

Where the Rubber Meets the Road with Dev and Ops Teams

Intermediate

JOANNA WYGANOWSKA

Thursday, August 10, 2:45 - 4:00pm

You will learn:

- How to successfully bridge the gap between Dev and Ops
- How to agree on goals and KPI metrics, and align your DevOps team
- How to build Development and Operations teams of the future



CLOUD, CONTAINERS, AND MICROSERVICES

Cloud computing is no longer new. For most organizations, it's not a matter of "if", it's more about how much with a focus on the big three: AWS, Azure, and GCP. Container technologies such as Docker and Kubernetes (aka k8s) are having a large impact on cloud computing, as well as on software architecture. This is perhaps most clear when thinking about service-oriented, or microservice, software architectures and how they can be used to leverage cloud- and container-based environments. It is hard to imagine any enterprise development scenario where one or more of these trends would not be high on the list of critical skills.

This track includes coverage of the following:

- Workshop: Ship Faster, More Securely with Azure PaaS
- Fast Focus: Save on your Azure Bill
- Azure 101
- An Overview of Azure Data Platform Choices
- Infrastructure as Code: Collaborate and Deploy to Azure with Confidence
- WebAssembly in the Cloud
- Use OpenAPI to Document and Generate Your Services and Clients
- A day in the life of a container

T03

Azure 101

Introductory

DENNY CHERRY

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

You will learn:

- An understanding of Azure
- How to use the right Azure Solution to your problem
- The best way to purchase Azure

T07

Choosing the Right Data Store - An Overview of Azure Data Platform Choices

Intermediate

DENNY CHERRY

Tuesday, August 8, 9:30 - 10:45am

You will learn:

- The differences between the data solutions
- When to use different data platforms in Azure
- When to keep databases on-premises

W13

Fast Focus: 15 Minutes Could Save You 15% Or More on Your Azure Bill

Introductory

ESTEBAN GARCIA

Wednesday, August 9, 2:00 - 2:20pm

Some topics that we will cover:

- Azure Advisor
- Workload review
- Reserved instances
- Autoscaling
- Budgeting
- Compute choices

W18

Infrastructure as Code: Collaborate and Deploy to Azure with Confidence

Intermediate

ESTEBAN GARCIA

Wednesday, August 9, 2:30 - 3:45pm

You will learn:

- The benefits of Infrastructure as Code
- ARM Templates and Terraform
- About adding Infrastructure as Code to your pipeline



SESSION DESCRIPTIONS BY TRACK *(continued)*

TH02

WebAssembly in the Cloud

Intermediate

JON FLANDERS

Thursday, August 10, 8:00 - 9:15am

You will learn:

- Understand how WebAssembly can be used outside of the browser
- Recognize use-cases for WebAssembly in your server-side solutions
- Be able to determine the best approach for deploying WebAssembly outside of the browser

TH06

Use OpenAPI to Document and Generate Your Services and Clients

Introductory

JON FLANDERS

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

You will learn:

- The basics of how OpenAPI works
- Understand the power of OpenAPI code generation
- Be able to integrate OpenAPI and code generation into your own development pipeline

TH19

A Day in the Life of a Container

Introductory

ESTEBAN GARCIA

Thursday, August 10, 2:45 - 4:00pm

You will learn:

- About containers and their purpose
- How containers fit into the overall world of microservices
- About the creation, deployment, and orchestration of containers



CUTTING-EDGE AI

With the advent of ChatGPT and the huge growth in generative AI, it suddenly seems like artificial intelligence is everywhere, and everyone's talking about it. The technology is exciting and powerful, and the mainstream awareness of it can help adoption and create opportunities. But learning how the technology works, and how it can help you, requires getting beyond the hype and examining the core of the subject matter itself.

Visual Studio Live!'s Cutting-Edge AI track does exactly that, by teaching you how GPT, ChatGPT and other large language models work, how best to prompt them, and how you can use them as tools in your own work, including for generating and debugging code. Beyond Generative AI, this track will also teach you the foundational machine learning technology that remains important and becomes even more so as AI awareness picks up. Want to get up to speed on real-world AI without side-lining your other important work? Visual Studio Live! gives you the expertise, education and pragmatic approach you need to get there.

This track includes coverage of the following:

- ChatGPT, GPT-4, and Friends, Large AI Models that will Change Our Life

T04

Unveiling the Power of ChatGPT and Large Language Models: A Comprehensive Guide

Introductory

BRIAN RANDELL

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

You will learn:

- Gain a foundational understanding of ChatGPT and its underlying GPT-4 architecture, which empowers the AI to generate human-like text responses and comprehend complex language patterns.
- Acquire practical knowledge on how to effectively use ChatGPT for various tasks, such as drafting emails, generating creative content, and providing assistance in programming and customer support.
- Develop an appreciation for the broader context of large language models, including their evolution, ethical considerations, and the ongoing efforts to ensure the safe and responsible use of AI technologies.

T11

Unveiling the Power of ChatGPT and Large Language Models: A Comprehensive Guide

Introductory

PRASHANT G BHOYAR

Tuesday, August 8, 1:30 - 2:45pm

- GPT-3, GPT-3.5, and GPT-4 models from OpenAI are prompt-based. While these models are extremely powerful, their behavior is also very sensitive to the prompt. This makes prompt construction an important skill to develop.

SESSION DESCRIPTIONS BY TRACK *(continued)*

T14

ChatGPT, Azure OpenAI, and Cognitive Services : Better Together

Introductory

PRASHANT G BHOYAR

Tuesday, August 8, 3:00 - 4:15pm

In this demo-drive session, we will cover the following topics in detail:

- What are Azure OpenAI Services?
- What is Prompt Engineering?
- How to customize Azure OpenAI services?
- Azure Open AI Services: ChatGPT, Davinci, Ada, Babbage, Curie, Cushman
- Cognitive Services: Language, Speech, Vision
- Conversational AI
- Forms Recognizer
- How to create enterprise-grade applications using Azure Open AI, ChatGPT, and Cognitive Services?

W07

ChatGPT, GPT-4, and Friends, Large AI Models that will Change Our Life

Intermediate

ANDREAS ERBEN

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

You will learn:

- The type and scale of the new generation of large AI models
- What large AI models can accomplish
- About specific relevant use cases and so-called "prompt engineering"

IT WAS WELL ORGANIZED AND HAD A VARIETY OF SESSION TOPICS.

— 2022 Visual Studio Live! San Diego attendee

W12

Fast Focus: No, ChatGPT and Bard Won't Take Your Job

Introductory

BRIAN RANDELL

Wednesday, August 9, 1:30 – 1:50pm

You will learn:

- Understanding the capabilities and limitations of AI language models such as ChatGPT and Bard
- Exploring the unique value of human expertise and creativity in the face of AI advancements
- Identifying opportunities for collaboration between AI and humans, leading to increased productivity and innovation

W16

Fast Focus: Inside Azure OpenAI Service

Introductory / Intermediate

ERIC D. BOYD

Wednesday, August 9, 2:00 – 2:20pm

You will learn:

- Overview of Azure OpenAI
- How to get started with Azure OpenAI
- Microsoft's commitment to responsible AI

TH03

Beyond ChatGPT

Introductory

ANDREAS ERBEN

Thursday, August 10, 8:00 – 9:15am

Details coming soon.



DATA & ANALYTICS

Data and analytics are among the hottest topics in our industry, and in the Microsoft technology ecosystem. Consider this confluence of factors: SQL Server 2022 became generally available late last year; Azure SQL Database, including Managed Instance, continually improves; Cosmos DB continues to gain momentum; data warehouse and data lake skills grow ever more important; and Entity Framework remains front-and-center in the modern .NET world. There's no room for anyone to be complacent when it comes to data and analytics, and we're here to keep you up-to-date.

This track includes coverage of the following:

- Beyond Relational with Entity Framework
- Fast Analytical Processing with DuckDB
- What's New for Developers in SQL Server 2022
- Confidential Computing with SQL Server Always Encrypted and Secure Enclaves
- Fast Focus: Database Blockchain Security with SQL Server 2022 Ledger
- Python Quickstart for non-Python Developers

W03

What's New for Developers in SQL Server 2022

Intermediate

LEONARD LOBEL

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

You will learn:

- How to secure your data using ledger tables
- How to apply granular permissions to dynamic data masking
- How to leverage new T-SQL enhancements

SESSION DESCRIPTIONS BY TRACK *(continued)*

W15

Fast Focus: Database Blockchain Security with SQL Server 2022 Ledger

Introductory / Intermediate

LEONARD LOBEL

Wednesday, August 9, 2:00 - 2:20pm

We'll start with a quick overview of ledger, and then see live demos showing ledger in action with both append-only and updatable ledger tables in SQL Server 2022 and Azure SQL Database.

W19

Confidential Computing with SQL Server Always Encrypted and Secure Enclaves

Intermediate

LEONARD LOBEL

Wednesday, August 9, 2:30 - 3:45pm

You will learn:

- The basic Always Encrypted technology for client-side encryption with SQL Server
- How SQL Server and Azure SQL Database leverages secure enclaves to enable rich computation over encrypted data
- See live demos showing Always Encrypted in use with SQL Server and C#

GETTING AWAY FROM WORK FOR A MINUTE. TAKING SOME ME TIME. TALKING WITH OTHER DEVELOPERS TO SEE WE HAVE SIMILAR PROBLEMS. I LIKE GETTING SUGGESTIONS TO SOLUTIONS TO MY ISSUES.

— Rodney Hickman, KLAS Research,
2022 Visual Studio Live! San Diego attendee



DEVELOPING NEW EXPERIENCES

The expectations around “user experience” are being upended right before our eyes. In today’s world you need to understand not only graphical interactions with keyboard, mouse, touch, and stylus, but also gesture, 3D, mixed-reality, and more. Fortunately, we’ve got you covered with content for rich multi-platform apps covering Windows, macOS, and mobile and even bots for good measure.

This track includes coverage of the following:

- Leveraging WinUI3 for business desktop applications
- Fast Focus: Using Blazor in MAUI
- Deep Dive with MAUI
- Injecting Innovation into Applications Through Design
- “Wouldn’t it be Cool” and Other Bad Design Approaches
- Practical Internet of Things for the Microsoft Developer
- Create Intelligent Bots with the Power Platform, Azure, and Cognitive Services

W02

Practical Internet of Things for the Microsoft Developer

Introductory / Intermediate

ERIC D. BOYD

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

You will learn:

- Overview of Internet of Things
- Getting started with Azure IoT services
- How to prototype IoT devices and sensors

W06

Create Intelligent Bots with the Power Platform, Azure, and Cognitive Services

Introductory / Intermediate

ERIC D. BOYD

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

You will learn:

- Overview of conversational bots
- Getting started building conversational bots with Azure and PVA
- How to design great conversational experiences

W10

Fast Focus: Using Blazor in MAUI

Introductory

ROCKFORD LHOTKA

Wednesday, August 9, 1:30 - 1:50pm

You will learn:

- How to create a MAUI Blazor project
- How Blazor operates within MAUI
- How Blazor can leverage MAUI to access native capabilities

W23

Leveraging WinUI3 for Business Desktop Applications

Intermediate

BILLY HOLLIS

Wednesday, August 9, 4:00 - 5:15pm

You will learn:

- Why WinUI is bringing together Microsoft’s most important native UI platforms
- How moving from WPF to WinUI can offer important new functionality in your apps
- Some of the challenges in moving to WinUI 3 based on a real project

SESSION DESCRIPTIONS BY TRACK *(continued)*

TH07

Injecting Innovation into Applications through Design

Introductory

BILLY HOLLIS

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

You will learn:

- How innovation is underappreciated due to modern development complexities
- How processes and methodologies, including widely used agile variants, hamper innovation
- Techniques to make your team innovation focused, allowing them to build more valuable applications

TH11

“Wouldn’t It Be Cool” and Other Bad Design Approaches

Introductory

BILLY HOLLIS

Thursday, August 10, 11:00am - 12:15pm

You will learn:

- About real world design failures
- The reasons they failed, so you can avoid similar failures
- An understanding of alternative design approaches much less likely to fail

TH16

Deep Dive with MAUI

Intermediate

SAM BASU

Thursday, August 10, 1:15 - 4:00pm

Let’s look under the surface of the future with .NET MAUI. Architectural changes make things more consistent in .NET MAUI – app bootstrapping, resource sharing, dependency injection, support for multiple design patterns & catering to mobile/desktop platforms.



HUMAN FACTORS IN ENGINEERING

When engineering software, systems, and processes, one factor that is key to success, that is particularly complex and challenging to account for, and is often not focused on proactively – is the human factor. Drucker famously said that “culture eats strategy for breakfast”, meaning that the best laid system architecture, cloud strategies, and DevOps pipelines are only as effective as the people and teams who are implementing those brilliant plans. And to be effective, those individuals and teams need leaders who are connected and present and who provide clear vision and priorities for their teams to align to. They also need to work within a culture that embraces and encourages experimentation, learning, and continuous improvement, with access to tools and processes that reduce friction and boost collaboration. The sessions in the Human Factors in Engineering track focus on topics that will be relevant and useful for a lifetime regardless of the platform, languages, and “best practices” that you use along the way.

Topics in this track include:

- Hands-on Lab: Scrum is Not the Point: Focusing on Done & Delivery in Scrum
- How to Effectively Communicate Technical Ideas to Non-Technical Audiences
- How to Effectively Move from Ideation to Implementation
- How to Fix a Failing Project
- Busy Manager’s Guide to Performance Management
- Top 10 Ways to Go from Good to Great Scrum Master
- Busy Manager’s Guide to Successful Meetings

T10

How to Effectively Communicate Technical Ideas to Non-Technical Audiences

Introductory

AMBER VANDERBURG

Tuesday, August 8, 1:30 - 2:45pm

You will learn:

- Tools to communicate technical ideas to non-technical audiences
- How to quickly assess the baseline understanding of your audience
- How to quickly check for understanding in your messaging

T13

How to Effectively Move from Ideation to Implementation

Introductory

AMBER VANDERBURG

Tuesday, August 8, 3:00 - 4:15pm

You will learn:

- An understanding about the trends and cycles of effective team implementation
- How to effectively lead change initiatives by addressing challenges in logistics, resources, and team dynamics.
- Engage in a series of action focused activities related to specific ideation projects
- Walk away with an action plan in hand to successfully go from ideation to implementation

TH04

How to Fix a Failing Project

Intermediate / Advanced

BENJAMIN DAY

Thursday, August 10, 8:00 - 9:15am

You will learn:

- How unclear priorities and too much Work in Progress (WIP) can get in your way
- How to use simple metrics to measure what’s going on: Flow Metrics, Cycle Time, and Lead Time
- Communication techniques for working with grumpy stakeholders and bosses

SESSION DESCRIPTIONS BY TRACK *(continued)*

TH08

Busy Manager's Guide to Performance Management

Intermediate

TED NEWARD

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

You will learn:

- What managers do
- Ways to improve your team's members
- How to become the kind of boss nobody wants to quit

TH12

Top 10 Ways to Go from Good to Great Scrum Master

Intermediate / Advanced

BENJAMIN DAY

Thursday, August 10, 11:00am - 12:15pm

You will learn:

- If you're technically-oriented Scrum Master, how do you help your team without accidentally ruining their ability to self-organize?
- How to find the right balance between Big-Design-Up-Front, Emergent Architecture, and suicidally reckless non-planning
- Some basic (and not-so-basic) people skills that every developer should know plus how to efficiently align Teams with Products

TH15

Busy Manager's Guide to Successful Meetings

Intermediate

TED NEWARD

Thursday, August 10, 1:15 - 2:30pm

You will learn:

- Insight into what makes meetings productive
- How to structure your meetings to be successful
- To embrace some meeting alternatives

THE CORE OF .NET

The heart of the Microsoft development experience has been the .NET Framework. But it's changed a lot in the era of .NET Core. And now we have a single, unified version, .NET 7. You need to understand these major changes in the platform, not to mention the cool features being added to C#. These are the foundation-level topics you need to know for success in the Microsoft development world.

Topics in this track include:

- Hands-on Lab: Asynchronous and Parallel Programming in C#
- Building Cloud-Ready Applications in .NET
- New Features in .NET/C#
- Understanding Delegates in C#C# and Roslyn
- Fast Focus: Getting .NET Interactive Notebooks
- Task, Await, and Asynchronous Methods in C#
- Dependencies Demystified
- What's New in .NET 7 APIs

T02

Useful New-ish Features in .NET/C#

Introductory / Intermediate

DEBORAH KURATA

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

You will learn:

- About some of the new-ish features in C#
- About some of the new-ish features in .NET
- How to leverage these features in your current projects

T06

Building Cloud-Ready Applications in .NET

Intermediate

Tuesday, August 8, 9:30 - 10:45am

You will learn:

- What it means to be cloud ready
- Architecting systems
- Libraries supporting cloud-readiness

T15

Get Func-y: Understanding Delegates in C#

Introductory / Intermediate

JEREMY CLARK

Tuesday, August 8, 3:00 - 4:15pm

You will learn:

- How delegates can add extension points to your code
- Methods as parameters for other methods
- To understand the built-in Func and Action delegate types

W09

Fast Focus: Getting .NET Interactive Notebooks

Introductory

JASON BOCK

Wednesday, August 9, 1:30 - 1:50pm

You will learn:

- See what .NET Interactive Notebooks are
- Understand how .NET works in notebooks
- Gain insight into .NET integration in Jupyter

SESSION DESCRIPTIONS BY TRACK *(continued)*

W22

I'll Get Back to You: Task, Await, and Asynchronous Methods in C#

Introductory / Intermediate

JEREMY CLARK

Wednesday, August 9, 4:00 - 5:15pm

You will learn:

- How to get data back from an asynchronous method
- How to handle exceptions that occur in an asynchronous method
- When to use "ConfigureAwait"

TH05

Dependencies Demystified

Intermediate

JASON BOCK

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

You will learn:

- Gain insight into what dependencies are
- See how containers simplify and empower your applications
- How to use containers effectively in modern .NET applications

TH09

What's New in .NET 7 APIs

Intermediate

JASON BOCK

Thursday, August 10, 11:00am - 12:15pm

You will learn:

- See what functionality .NET provides
- Understand new features in the latest version of .NET
- Gain insight in staying on top of new runtime versions



FULL STACK WEB DEVELOPMENT

Web development has become the dominant approach for building enterprise software. To provide your best on every project, you need to understand the server and browser client worlds. On the server, there's ASP.NET using .NET 7, Razor Pages, and support for building services. The browser client is evolving rapidly, with constant changes and updates to JavaScript, TypeScript, Angular, and other related frameworks. But more than this, there's now Blazor Server and Blazor Client (aka WebAssembly) and the ability to run other languages natively in the browser. Your need to keep up to date with all these technologies has never been greater, and we're here to give you the knowledge you need!

Topics in this track include:

- Hands-on Lab: Develop an ASP.NET Core App with EF Core in a Day
- Workshop: Microsoft Blazor Top to Bottom
- RxJS in Angular: Working with Data
- ASP.NET Basics for Experts
- Deep Dive: Web Services with ASP.NET Core
- Micro Frontends and Module Federation
- Typescript Meta-Programming
- Fast Focus: API Versioning
- Introduction to Blazor
- Building Enterprise Blazor Apps Using CSLA .NET
- Creating Business Applications using Blazor
- Creating Azure OpenAI Applications

T01

ASP.NET Basics for Experts

Intermediate / Advanced

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

You will learn:

- Good design principles
- Building resilient systems
- Building maintainable systems

T05

RxJS in Angular: Working with Data

Introductory / Intermediate

DEBORAH KURATA

Tuesday, August 8, 9:30 - 10:45am

You will learn:

- Understand what reactive programming means
- Tips and techniques for implementing reactive programming in Angular
- Leverage reactive programming for working with data

T09

Deep Dive: Web Services with ASP.NET Core

Intermediate

PHILIP JAPIKSE

Tuesday, August 8, 1:30 - 4:15pm

You will learn:

- Foundations of ASP.NET Core
- Building RESTful services with ASP.NET Core
- Documenting services with swagger

SESSION DESCRIPTIONS BY TRACK *(continued)*

W01

Micro Frontends and Module Federation

Intermediate / Advanced

DANIEL OSTROVSKY

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

The micro-frontend architecture is attracting more and more developers, and module federation is a great addition to this architectural pattern. And as with any new technology, new questions are raised.

Let's take real-life examples and live coding to answer the following but not limited to: how we should divide apps and whether there are specific criteria to separate them. Is my project suitable for the Micro-Frontend at all? When should I use Micro-Frontend and when Module Federation? And some other questions.

You will learn:

- About Micro-Frontend patterns
- About Module federation
- The Pros/Cons and when not to...

W05

Introduction to Blazor

Introductory / Intermediate

ROCKFORD LHOTKA

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

Blazor is a UI framework that enables you to build powerful web apps using HTML, CSS, and C#. You can host an app on a web server or run the app on the client device in any modern browser. The Blazor UI framework is very capable, and provides a powerful UI component model, data binding, routing, authorization, and many other features necessary to build a modern app.

You will learn:

- How Blazor, WebAssembly, and .NET combine to enable this app platform
- How to build server-side Blazor and Blazor WebAssembly apps
- How to use Blazor UI framework features such as UI components, data binding, routing, and authorization

W11

Fast Focus: API Versioning

Intermediate

PHILIP JAPIKSE

Wednesday, August 9, 1:30 - 1:50pm

Versioning ASP.NET Core API's can be done quickly using available tooling. In this fast focus, I skip the theory and dive right into versioning ASP.NET Core APIs.

You will learn:

- Why to choose version
- When to version
- How to version

W17

Building Enterprise Blazor Apps using CSLA .NET

Intermediate

ROCKFORD LHOTKA

Wednesday, August 9, 2:30 - 3:45pm

You will learn:

- How Blazor can be used to build end-user experiences for the enterprise
- How CSLA .NET helps you develop maintainable, reusable, cross-platform business logic
- How to leverage your business logic on the server with Linux containers

W21

Typescript Meta-Programming from 0 to 100

Intermediate / Advanced

DANIEL OSTROVSKY

Wednesday, August 9, 4:00 - 5:15pm

You will learn:

- About decorators and useful examples
- How to understand Infer on practice
- About Metaprogramming practical use-cases

TH13

Creating Business Applications using Blazor

Introductory

MICHAEL WASHINGTON

Thursday, August 10, 1:15 - 2:30pm

You will learn:

- Core Blazor concepts including Binding, Routing and JavaScript Interop
- About Azure Active Directory B2C and why would you want to use it
- How to create end-to-end Blazor business applications using Server Side Blazor and Blazor WebAssembly

TH17

Creating Azure OpenAI Applications

Introductory

MICHAEL WASHINGTON

Thursday, August 10, 2:45 - 4:00pm

You will learn:

- The different types of machine learning techniques used by OpenAI, including natural language processing and deep learning
- The benefits and limitations of OpenAI, and how it can be used to enhance user experiences in software applications
- Best practices for integrating OpenAI into software applications, and how to optimize performance and accuracy

**I'LL GLADLY COME TO THIS
CONFERENCE AGAIN NEXT YEAR.**

— 2022 Visual Studio Live! San Diego attendee

CONFERENCE CHAIRS & SPEAKERS

CONFERENCE CHAIRS



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



Angela Dugan
Solutions Director,
3Cloud Solutions
Visual Studio Live!
Conference Co-Chair



Rockford Lhotka
VP of Strategy,
Xpirit USA
Visual Studio Live!
Conference Co-Chair



Brian Randell
Product Marketing
Director, GitHub
Visual Studio Live!
Conference Co-Chair

SPEAKERS



Sam Basu
Developer Advocate,
Progress Software



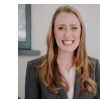
Jeremy Clark
Developer Educator,
JeremyBytes.com



Billy Hollis
Developer. Designer.
Speaker. Author.



Leonard Lobel
CTO,
Sleek Technologies, Inc.



Amber Vanderburg
Founder,
Pathwayz Group



Prashant G Bhoyar
Cloud Solution
Architect, AIS



Benjamin Day
Author, Trainer,
Developer



Philip Japikse
Developer, Coach,
Author, Teacher



Ted Neward
Principal,
Neward & Associates



Michael Washington
Founder,
Blazorhelpwebsite.com
& AIHelpWebsite.com



Jason Bock
Developer Advocate,
Rocket Mortgage



Andreas Erben
CEO Americas, daenet



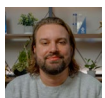
Josh Johanning
Senior DevOps
Architect, GitHub



Daniel Ostrovsky
Software Senior
Principal Engineer, Dell



Joanna Wyganowska
Director of Product
Marketing,
Octopus Deploy



Eric D. Boyd
Founder and CEO,
responsiveX



Jon Flanders
Software Engineer,
Disney



Deborah Kurata
Consultant, Speaker,
Author



Brian Randell
Product Marketing
Director, GitHub



Denny Cherry
Owner and Principal,
Denny Cherry &
Associates Consulting



Esteban Garcia
CEO, Xpirit USA



Rockford Lhotka
VP of Strategy,
Xpirit USA



Razel Scarlett
Junior Developer
Advocate, GitHub

VENUE & TRAVEL



VISITING SAN DIEGO

Take advantage of all the city of San Diego has to offer. [Explore](#) and find your San Diego inspiration to start planning your trip today!



LOCATION

Sheraton San Diego Hotel; Home to All Visual Studio Live! Sessions & Activities

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SHERATON SAN DIEGO HOTEL

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Book by: July 13, 2023

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**The special attendee room rate is based on single or double occupancy.
The room rate does not include applicable state, local, and occupancy taxes.
Rooms are subject to availability.*

VSLIVE!'S "AFTER HOURS" COMPLIMENTARY SHUTTLE

Visual Studio Live! will provide complimentary "after hours" shuttle transportation between the Sheraton San Diego Hotel and the following San Diego hotspots during the times below and will depart every 20 - 30 minutes. Hop on the shuttle after a busy day of learning and explore some of San Diego's iconic neighborhoods and nightlife in Old Town and the downtown Gaslamp District.

Monday, August 7 - Old Town San Diego

6:30pm - 10:30pm — Shuttles to and from the Sheraton San Diego Hotel to Old Town San Diego

Wednesday, August 9 - San Diego Gaslamp District (Downtown)

6:00pm - 10:00pm — Shuttles to and from the Sheraton San Diego Hotel to San Diego's downtown Gaslamp District

Thursday, August 10 - San Diego Gaslamp District (Downtown)

6:00pm - 10:00pm — Shuttles to and from the Sheraton San Diego Hotel to San Diego's downtown Gaslamp District

**The ending time indicated is the last departure from the location back to the Sheraton San Diego Hotel. Please allow extra time during peak traffic periods.*

CONFERENCE AND HOTEL PRICING PACKAGES

VISUAL STUDIO LIVE! OFFERS SEVERAL CONFERENCE AND HOTEL PACKAGES to best suit your needs and budget. Register now to save your seat and remember to book your hotel early too before it sells out!

CONFERENCE PACKAGES			
Every Conference Package grants you access to every Keynote, Session, Breakfast, Lunch, and Welcome Reception	SUPER EARLY BIRD UNTIL JUNE 9	EARLY BIRD UNTIL JULY 14	STANDARD UNTIL AUGUST 7
5-DAY CONFERENCE PACKAGE + Monday HOL + Friday Workshop <i>(Monday - Friday)</i>	\$2,700	\$2,800	\$3,100
4-DAY CONFERENCE PACKAGE + Friday Workshop <i>(Tuesday - Friday)</i>	\$2,200	\$2,300	\$2,600
3 DAY CONFERENCE PACKAGE <i>(Tuesday-Thursday)</i>	\$1,700	\$1,800	\$2,100
FULL DAY HANDS-ON LAB <i>(Monday Only)</i>	\$650	\$700	\$750
FULL DAY WORKSHOP PASS <i>(Friday Only)</i>	\$650	\$650	\$650

ADD THE HOTEL PACKAGE

At the Sheraton San Diego Hotel & Marina

5 DAY HOTEL PACKAGE*

\$1,375

Check In: Sunday, Aug 6 | Check Out: Friday, Aug 11

4 DAY HOTEL PACKAGE*

\$1,100

Check In: Monday, Aug 7 | Check Out: Friday, Aug 11

3 DAY HOTEL PACKAGE*

\$825

Check In: Monday, Aug 7 | Check Out: Thurs, Aug 10

* The Hotel Package includes applicable state, local and occupancy taxes.

DISCOUNTS & SPECIAL SAVINGS

TEAM DISCOUNTS: BRING THE TEAM AND SAVE BIG!

Visual Studio Live! San Diego offers savings to teams of 3 or more from the same company and registering for the same package. Looking to bring 10 or more? Contact our Conference Registrar at sross@converge360.com or at 949.296.9840.

TEAM PACKAGES * Team Prices quoted are "per-person"			
Every Conference Package grants you access to every Keynote, Session, Breakfast, Lunch, and Welcome Reception	SUPER EARLY BIRD UNTIL JUNE 9	EARLY BIRD UNTIL JULY 14	STANDARD UNTIL AUGUST 7
5-DAY CONFERENCE PACKAGE + Monday HOL + Friday Workshop (Monday - Friday)	\$2,400	\$2,500	\$2,800
4-DAY CONFERENCE PACKAGE + Friday Workshop (Tuesday - Friday)	\$1,900	\$2,000	\$2,300
3 DAY CONFERENCE PACKAGE (Tuesday-Thursday)	\$1,600	\$1,600	\$1,600

GREAT SPEAKERS, VERY APPLICABLE TO MY CURRENT WORK.

— 2022 Visual Studio Live! San Diego attendee

MORE DISCOUNTS

ALUMNI

Welcome back! If you have attended any Visual Studio Live!, TechMentor or Live! 360 event, you qualify for our special alumni discount. You should receive alumni special promotions, but if not, please contact our Conference Registrar at sross@converge360.com or 949.296.9840.

EDUCATION

We offer full-time college students and faculty from accredited universities a discount. To receive this discount, please contact our Conference Registrar at sross@converge360.com or 949.296.9840. Subject to Visual Studio Live! verification.

NEW DEVELOPER

If you are a new Developer (or new to the Microsoft Platform) with less than three years of experience, you are eligible for \$600 off of our full price conference registration to help accelerate your career. Use Promo Code NDD. Subject to Visual Studio Live! verification.

GOVERNMENT/ NON-PROFIT

Employees of a national, federal, state, provincial, or local government entity are eligible to take advantage of our discount. To receive this discount, please contact our Conference Registrar at sross@converge360.com or 949.296.9840. Subject to Visual Studio Live! verification.

UPCOMING 2023 CONFERENCES & SEMINARS



**Visual Studio Live!
Microsoft HQ
July 17-21, 2023**

Microsoft Commons Mixer,
Redmond, WA/ Hyatt
Regency Bellevue

vslive.com/microsofthq



**2-Day Virtual Hands-On
Training Seminar:
SQL for Developers
September 21-22, 2023**

vslive.com



**Visual Studio Live! /
Live! 360 Orlando
November 12-17, 2023**

Loews Royal Pacific Resort at
Universal Orlando,
Orlando, FL

live360events.com



**4-Day Virtual Hands-On
Training Seminar:**

Full Stack Hands-On
Development with
.NET (Core)

December 4-7, 2023

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