

Zachary Lockhart

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Lead Software Engineer

Results-driven Lead Software Engineer with 12+ years of experience architecting large-scale, cloud-native enterprise applications using C# and the .NET ecosystem. Currently leading three engineering teams at Optum, building scalable event-driven microservices with .NET 10, Angular micro-frontends, Kafka, Docker, Kubernetes, and Argo CD GitOps. Passionate about developer productivity and actively integrating GitHub Copilot across teams to accelerate development velocity while maintaining high code quality. Deep expertise in Domain-Driven Design (DDD), CQRS, clean architecture, and mentoring high-performing teams.

WORK EXPERIENCE

Optum **10/2020 – Present**
Senior Manager of Software Engineering • Full-time **Remote**

Lead Software Engineer **Eden Prairie, MN**

- Lead five cross-functional teams in designing and delivering complex, scalable enterprise applications on a modern .NET 10 stack with Angular micro-frontends and event-driven microservices powered by Kafka.
- Architect solutions using Domain-Driven Design (DDD), CQRS, Onion Architecture, Outbox/Inbox patterns, and Aggregate Root principles to ensure reliability and maintainability at enterprise scale.
- Containerize and orchestrate applications with Docker and Kubernetes (cdk8s), implementing fully automated GitOps CI/CD pipelines using Argo CD.
- Integrate GitHub Copilot across all five teams to boost developer productivity, code quality, and velocity while fostering modern development practices.

Zachary Lockhart Consulting, LLC **Pittsburgh, PA**
Owner / Principal Consultant

- Deliver full-stack custom software solutions and websites for clients using Angular, React, C#/.NET, AWS, GCP, and Firebase.
- Provide technical leadership, architecture guidance, and rapid development of cloud-native applications.

Brunner, Inc **06/2014 – 03/2019**
Team Lead / Senior Software Engineer **Pittsburgh, PA**

- Led a team of developers building small-to-large-scale web applications using MVC, Docker, .NET Core, and C#.
- Designed and developed enterprise eCommerce platforms and large-scale financial systems.
- Contributed to a virtual reality operating-room simulation project in Unity3D for a medical client.

Dick's Sporting Goods **10/2017 – 10/2018**
Senior Application Developer **Pittsburgh, PA area**

- Partnered with Pivotal to implement Extreme Programming and DevOps transformation in a microservices environment.
- Built horizontally scalable web applications using Docker containers, Angular 6, and .NET Core with automated CI/CD pipelines.

Academy Pittsburgh
Instructor

09/2017 – 03/2018
Pittsburgh, PA

- Taught full-stack development curriculum (C#, React, TDD, MSSQL, Git, HTML/CSS/JavaScript, MVC.NET, Ruby on Rails) to evening cohort, developing strong mentoring and knowledge-sharing skills.

BigSquare Solutions
Web/Application Developer

01/2014 – 04/2014
Carnegie, PA

- Developed agile web applications for accounting and law firms using C#, ASP.NET, and jQuery.

SDLC Partners, L.P
Consultant

09/2013 – 01/2014
Pittsburgh, PA

- Designed and developed database-driven MVC and ASP.NET web applications with C# backend and jQuery frontend.

Motorola Solutions, Inc
Senior Software Technician

06/2011 – 09/2013
Coraopolis, PA

- Developed mobile, web, and desktop applications in C# and ASP.NET incorporating RFID technology.
- Participated in full lifecycle design from high-level architecture to low-level implementation and database scripting.

Pittsburgh Technical Institute
Teaching Assistant

10/2010 – 06/2011
Oakdale, PA

- Assisted instructor with software development courses and provided one-on-one student tutoring.

Southern Local High School
Network Administrator Assistant

08/2007 – 05/2009
Salineville, OH

EDUCATION

Associate of Science

Pittsburgh Technical Institute

Oakdale, PA • 10/2011

PROJECTS

PickupVB.com – find, host and attend volleyball events

04/2026 – Present

Lead developer for pickupvb.com

SKILLS

Languages & Frameworks: Angular, ASP.NET, C#, CSS, HTML5, JavaScript, MVC, .NET 10, .NET Core, Node.js, React

Cloud & DevOps: Argo CD, AWS (S3, Lambda), cdk8s, CI/CD pipelines, Docker, GitOps, Google Cloud Platform, Kubernetes

Databases & Messaging: Kafka, Microsoft SQL Server, MySQL

Tools & Practices: Agile, CQRS, Domain-Driven Design (DDD), Full-Stack Development, Generative AI, Git, GitHub Copilot, REST APIs, Unit Testing