

Zachary D. Schmidt

Senior Software Engineer

zschmidt.github.io • Bend, OR

Personal Statement

I'm a full-stack software engineer with a strong background in building scalable web applications using technologies like Angular, C# .NET, and Scala. With experience leading projects in cloud environments and optimizing data pipelines, I thrive in solving complex technical challenges while mentoring teams to ensure their growth. My diverse skill set, combined with a master's degree and hands-on experience as a graduate teaching fellow, enables me to seamlessly integrate into dynamic engineering teams and deliver impactful solutions.

Core Competencies

- **Cloud Computing**
Google Cloud Platform (GKE, GCS, Cloud Build/Run/Scheduler, Dataflow),
Microsoft Azure (AKS, DevOps, Pipelines), Amazon Web Services (EC2)
 - **Programming Languages**
Scala, Javascript, Python, Typescript, C# , C++ , ColdFusion, Java, Actionscript
 - **Frameworks**
React, AngularJS, C# .NET, Microsoft Foundation Class, Angular, Spring Boot
 - **Databases**
BigQuery, Microsoft SQL, Cosmos DB
 - **Misc.**
Git, SVN, Mercurial, Kubernetes, Helm, Tiller, Terraform, Lightstreamer, SignalR, Docker,
Google Bard, Agile, Scrum, Kanban
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Experience

- **SoundCommerce** **Remote**
Senior Software Engineer *February 2023 – November 2023*
 - Interfaced with various APIs to load and process terabytes of analytics data in a microservices based ELT platform
 - Onboarded new hires by acting as a point of reference and maintaining an onboarding document which served as an introduction to the SoundCommerce ecosystem
 - Automated infrastructure management with Terraform, provisioning scalable Kubernetes (GKE) clusters for resource orchestration on GCP
 - Built secure and reliable CI/CD pipelines with Cloud Build, Artifact Registry, and Cloud Scheduler, while integrating Cloud Run for containerized service deployments of Python programs
Software Engineer *March 2021 – February 2023*
 - Manipulated large-scale BigQuery datasets, using Scala for backend development and Kafka for efficient messaging and data streaming
 - Updated core logic which resulted in a 4x-10x speed increase across all collectors in our infrastructure via a parallelization of our deduping logic
 - Optimized data storage and retrieval between GCS and BigQuery, driving performance improvements across the system, improving data accuracy and efficiency
- **Qualtrics** **Remote**
Software Contractor *November 2020 – December 2020*
 - Enhanced an existing AngularJS application, with a strong emphasis on improving keyboard accessibility for non-sighted users by implementing focus styles, updating DOM order, and programmatically handling keyboard actions
 - Successfully completed the update within a two month contract

- ATP Development** **Remote**
Fullstack Software Developer *June 2018 – May 2020*
 - Developed a full-stack web application with a TypeScript/Angular client and a C# .NET Core backend, integrating Cosmos DB and SignalR for real-time communication, and oversaw its deployment on Azure
 - Configured and maintained CI/CD pipelines that deployed Docker instances managed by a Kubernetes cluster, leveraging Helm and Tiller for resource management
 - Managed domain records (MX and CNAME) and implemented an automated email service using SendGrid
- Thermo Fisher Scientific** **Eugene, OR**
Software Engineering Contractor *January 2018 – June 2018*
 - Updated the user interface of a flow cytometer in a laboratory setting using C++ and Microsoft Foundation Class, while participating in Kanban development methodology to ensure efficient project workflow
- University of Oregon** **Eugene, OR**
Graduate Teaching Fellow *September 2015 – December 2017*
 - Taught lab sessions and held office hours for the following courses:
Fall 2015 CIS 111 (Intro to Web Programming) – JavaScript
Winter 2016 CIT 382 (Web Applications II) – JavaScript, Bootstrap
Spring 2016 CIS 212 (Computer Science III) – Java
Fall 2016, Winter 2017, Fall 2017 CIS 314 (Computer Organization) – C, x86 assembly
Spring 2017 CIS 410 (Intro to Game Programming)
- ImageTrend, Inc.** **Lakeville, MN**
Software Developer *January 2014 – September 2015*
 - Developed web applications using a diverse tech stack, including ColdFusion for CMS, AngularJS/Bootstrap for responsive design, and C# .NET for RESTful APIs
 - Led the development and deployment of a real-time auction platform with a Java backend, utilizing Lightstreamer streaming between both a client written in Actionscript, and another in HTML5/Javascript, and verified its ability to support 10,000 users via Amazon EC2 load testing

Education

- University of Oregon** **Eugene, OR**
M.S. Computer Science *2015 – 2017*
 - Minnesota State University, Mankato** **Mankato, MN**
B.S. Computer Science
B.S. Mathematics *2008 – 2013*
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Certifications/Honors

- Graduate Teaching Fellow of the Year, University of Oregon 2015-2016, 2016-2017
 - Eagle Scout, Boy Scouts of America 2008
 - Wilderness First Responder, NOLS 2024
 - Crosscut A Sawyer/Chainsaw A Sawyer, Forest Service 2024
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