

# Zach Miller

Seattle, WA [zmmille2@gmail.com](mailto:zmmille2@gmail.com) [zmmille2.github.io](http://zmmille2.github.io)

## TECHNICAL SKILLS

*Comfortable:* Azure Functions, DevOps, Terraform, GitHub Actions, Software Patterns, Systems Level Programming, Bot Development, Scripting, Functional Programming, C#, Python, Typescript

*Familiar:* Machine Learning, Network Infrastructure, Blockchain Development, Reverse Engineering, Driver Development, Containers, Web Development, Haskell

## EDUCATION

*Computer Science, B.S.*

May 2016

University of Illinois, Urbana-Champaign, IL

## EXPERIENCE

### Microsoft

*Software Engineer - CSE*

August 2017-Now

- Design systems to solve complex customer problems and design software with an emphasis on clarity and maintainability
- Led team of 10 to automate monitoring infrastructure for hundreds of solar deployments
- Proposed, designed, and implemented rules processing system in Azure Functions through mediator pattern and MediatR library to accommodate hundreds of rules on millions of messages
- Drove engineering fundamentals with partners through presentations, workshops, and pairing on topics ranging from CI/CD to git to security and more
- Built out proof of concepts with clients using Azure Functions, blockchain, chatbots, image processing, general Azure Resource Management

*Software Engineer - OneSync*

Summer 2017

- Helped to debug system module for mail synchronization: team shut down soon after joining

*Software Engineer - Studios Quality*

Fall 2016 - Spring 2017

- Developed automated testing system for Forza Motorsport 7, guided UI tests

*Software Development Intern - Studios Quality*

Summer 2015

- Performance Guided Optimization (PGO) on Gears of War: Ultimate, PGO and tests on Gears 4

## PROJECTS and LEADERSHIP

### *Projector*

Current

Open Source

- Open source project to ease deployment of common backlog items across projects
- Refactored and simplified system design to accommodate dependency injection

### *TEALS Mentor*

Current

Carmen SE, Milwaukee WI

- Helping teach the next generation of computer scientists
- Mentoring 25 students, teaching CMU Intro to CS course

### *Developer Blog Editor*

Current

Microsoft

- Review and edit blog posts showcasing CSE's work with customers
- Ensure posts' technical explanations are clear and that they follow best practices in relevant fields

### *Engineering Playbook Design Champion*

Current

Microsoft

- Lead meetings to ensure good software design
- Drive software design discussions within the organization

*Intern Social Coordinator*

Summer 2017/18

Microsoft

- Organized a social group for interns, planned events for them
- Acted as a mentor and confidant, worked to solve problems in their internships
- Spoke one-on-one with around 15 interns weekly over the summer to let them talk about their questions and concerns