Sam Wolfson

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github.com/terabyte128

Education

University of Washington (Seattle, WA)

- Masters of Science, Computer Science — August 2020
- Bachelors of Science, Computer Science (Magna Cum Laude) — March 2019

Skills

Languages: Python, JavaScript/TypeScript, HTML/CSS, C, Golang, Terraform (AWS), Unix Shell, Swift (SwiftUI)
Frameworks: Flask, FastAPI, NextJS, React
Tools: Docker, Git, Kubernetes (Istio, Helm), SQL (PostgreSQL)
Platforms: AWS, GCP, GitLab CI/CD
Grab Bag: University teaching & course development, 3D design & printing, basic embedded systems

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Work Experience

Software Engineer, ExtraHop Networks — **2020 — present**

- Developed and supported software for hundreds of enterprise customers on RevealX 360, our cloud service offering.
- Worked throughout the entire software development lifecycle, including secure system design, development, deployment, and production support.
- Managed a Kubernetes cluster with the Istio service mesh.
- Worked extensively with AWS services to develop secure, resilient systems.
- Wrote Terraform infrastructure-as-code to provision resources programmatically.
- Developed full-stack, widely-used internal tools.

Quarterly Instructor, University of Washington — **2013 — 2023**

- Prepared and delivered three lectures a week for quarter-long courses (The Hardware/Software Interface, Computer Science Principles).
- Managed staff of ten TAs and classes of up to 150 students.
- Led weekly meetings to discuss goals & student experiences, manage grading load, and plan for the week.
- Developed new grading infrastructure for programming assignments using Docker images on the Gradescope platform.
- Worked with a graduate student to incorporate socio-technical content into courses with the goal of understanding the broader context around computer science and technology.

Software Engineering Intern, Arista Networks — **summer 2018**

- Implemented code to automatically power off servers in our test environment when they are not actively in use, leading to a 9% decrease in overall energy usage by test servers.
- Designed a strategy to move management code for test servers out of local user workspaces and into containerized microservices, using Docker to run the services and gRPC to facilitate communication between the clients and the services.

Projects & Volunteering

Non-Profit Board Member, Capitol Hill Tool Library — **2023 — present**

- Led semi-weekly volunteering shifts as a tool librarian, checking in and out tools and providing project advice.
- Implemented a new wiki to document volunteer guidelines and tool usage directions.
- Coordinated the installation of a new front sign, including permitting, installation, and electrical work.
- Led an effort to research and purchase a new 3D printer, and taught classes demonstrating its usage.