

## Education

Purdue University, West Lafayette, IN

BS, Computer Science, focus in Machine Learning and Software Engineering

## Work Experience

### Software Engineer | 23andMe, Sunnyvale, CA | Aug 2019 – Present

- As part of the Cloud Services and Scalability team, I worked closely with Security to enforce Chaos Engineering techniques and work cross-functionally to help engineers build and deploy resilient and fail-proof services.
- Deployed and integrated central AWS Stacksets of transparent and non-transparent proxy services to provide a secure channel for communicating with HTTPS and Amazon endpoints respectively. This service has full CI/CD capabilities and allows various teams to customize their proxy configurations without a need to redeploy the proxy.
- Unified various logging deployments into a centrally managed log-collector. Built and optimized ETL pipelines for data analytics tools and archiving services used by various teams in the company.
- Worked cross-functionally to reduce the cost of using EC2 and RDS instances and clusters by writing more aggressive scaling and load balancing policies. Idle services and underutilized instances now incur next to no costs when idle and dynamically scale up as usage spikes.

### Teaching Assistant | Purdue Computer Science; Prof. George B. Adams | Dec 2016 – May 2019

- Current Teaching Assistant for CS250-Computer Architecture involved designing, conducting and grading labs where students learn about circuits, ARM architecture and Assembly programming using RPi 3.

### Raspberry Pi Research Intern | Purdue University | Summer 2017, Summer 2018, Summer 2019

- Implemented and optimized a 64-bit kernel and headless Operating System for the Cortex A53 chip on the Raspberry Pi 3.

### Purdue Police Student and Dispatch Trainer | Purdue Police Department | Fall 2015 – Fall 2018

- I was responsible for training Student Patrol and Dispatch personnel of the Purdue Police Department in efficiently using new campus emergency systems and Purdue Safewalk Program.

## Skills & Abilities

<b>Programming</b>	: Python, Java, C++, C, SQL, NoSQL, Go, ARMv8
<b>Tools and Scripting</b>	: Amazon Web Service Tools, Git, Docker, Ansible, Vim, VSCode, JavaScript, Shell, Rest API, Jira, Terraform, New Relic, Sumologic, Kubernetes, Boto Interface, Data Serialization (YML, JSON)
<b>CI/CD</b>	: Jenkins, Concourse, Drone CI, Spinnaker, Cron, CodePipeline
<b>Technical</b>	: Complex algorithms analysis and problem solving, Sql & NoSql Database Maintenance, Deep Learning/Neural Networks, DevOps Engineering
<b>Professional</b>	: Agile/Scrum, Cloud Governance, FinOps Engineering, Infrastructure as Code (IaC), Conflict Management, Inter-team Communication

## Projects

**TS Fair Time Scheduler (C):** Implemented an operating system process scheduler to achieve a 'fairer' approach to process scheduling thus improving the speed of the Operating System.

**PageRank (Python):** Implemented and analyzed PageRank and HITS ranking systems for any set of weblinks.

**Ratings Predictor (Python):** Wrote a ratings and food dish prediction program based on vector space similarity supported memory-based collaborative system.