

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 work 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.
- Worked cross-functionally to reduce the cost of using EC2 and RDS instances and clusters by writing more aggressive scaling and load balancing policies. I have saved us ~\$200,000/month on AWS costs so far by writing in-house tools that deal with misbehaving instances in dev and prod.
- Unified various logging deployments into a centrally managed log-collector. Built and optimized pipelines for data analytics tools and archiving services used by various teams in the company.

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

- 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

Programming	: Python, Java, C++, C, SQL, NoSQL, Go, ARMv8
Tools and Scripting	: 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)
CI/CD	: Jenkins, Concourse, Drone CI, Spinnaker, Cron, CodePipeline
Technical	: Complex algorithms analysis and problem solving, Sql & NoSql Database Maintenance, Deep Learning/Neural Networks, DevOps Engineering
Professional	: 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.