AARON STEINBERG

aaron@aa.codes | https://aa.codes | https://github.com/azsteinb

EDUCATION

University of California, Santa Cruz
Baskin School of Engineering
Bachelor of Science, Computer Science **Sep. 2019 - Jun. 2023**

WORK EXPERIENCE

Security Software Engineer @ *Aurora Innovation* **Mar. 2024 - Present**
Contracting Security Software Engineer @ *Aurora Innovation* **Sep. 2023 - Mar. 2024**

- Developed and maintained security infrastructure for autonomous vehicle systems, both on the vehicle and in the cloud
- Designed, implemented, and scaled secure container signing, deployment and verification systems
- Designed and implemented a role based access control (RBAC) system for cloud resources
- Developed and maintained secure boot, secure update, key management, and device identity systems for proprietary embedded hardware
- C, C++, Golang, Python, Bazel, AWS, gRPC, Kubernetes, HashiCorp Vault, Terraform, Spacelift

Consulting Software Engineer @ *OrganizeMyPeople* **Apr. 2023 - Sep. 2023**

- Created an art studio booking and billing system for a non-profit art center
- Maintianed CRMs and databases for a variety of non-profit organizations
- PHP, Javascript, Laravel, React, Microsoft SQL Server

Google Workspace Subject Matter Expert @ *UCSC ITS* **Dec. 2021 - Jul. 2023**

- Provided technical support to students and internal ITS teams on Google Workspace applications and services
- Created Python scripts for auditing resource usage and automating administrative tasks

Computer Systems and C Programming Grader @ *UCSC* **Mar. 2021 - Jun. 2021**

Help Desk Technician @ *UCSC ITS* **Dec. 2020 - Dec. 2021**

Bioinformatics Software Engineer Intern @ *Progenabiome* **Jun. 2019 - Sept. 2019**

PROJECTS AND PAPERS

Bflock: A C library for safer & easier multithreaded IO operations.

Locally Imagined: An online art market place specialized to Santa Cruz, CA.
Tech used: Golang, GOA, React, Heroku, Amazon S3, & Postgresql.

MediBill: Medical Bill Analyzer, CruzHacks 2022 First Place Winner.
Tech used: Javascript, Python, Vue.js, Google Cloud Functions.

A Brief Survey of Data Placement in a Geo-Distributed Storage System using ML: Graduate distributed systems survey paper that explores ML-based data placement

Reverse Proxy HTTP Load Balancer: Multithreaded, logging, and cache enabled. Written in C.

SKILLS

Programming Languages: C, C++, Golang, Javascript, PHP, Python, SQL
Technologies and Other Skills: Bazel, Buildkite, Cryptography, Distributed Systems, Embedded Systems, Git, gRPC, HashiCorp Vault, Key Management, Kubernetes, Laravel, LaTeX, Linux, Make, Measured Boot & Device State Attestation, Metrics, Node, Operating Systems, Protocol Buffers, RBAC, React, Secure Boot, Spacelift, SSL/TLS, Terraform, Trace 32