

# AARON STEINBERG

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

## EDUCATION

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### University of California, Santa Cruz

Baskin School of Engineering

Bachelor of Science, Computer Science

Sep. 2019 - Jun. 2023

## WORK EXPERIENCE

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### 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, 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
- Maintained 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 @ Progenabio

Jun. 2019 - Sept. 2019

## PROJECTS AND PAPERS

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**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

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**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