

# Steven Huang

huangsteven@berkeley.edu | 408-916-8891 | linkedin.com/in/stevenshuang | stevenhuang010.github.io

## EDUCATION

### The University of California - Berkeley

Berkeley, CA

B.A. in Computer Science, Minor in Data Science - GPA: 4.0

May 2024

- ❖ **Relevant Coursework:** Data Structures & Algorithms, Computer Architecture, Database Systems, Operating Systems, Designing Information Systems, Computer Security, Discrete Math, Probability, Linear Algebra, Data Science Principles, Circuits, Web Design
- ❖ **Teaching Experience:** Web Design (Course Instructor, CS 198), Database Systems (Undergraduate Student Instructor, CS 186), Efficient Algorithms & Intractable Problems (Reader, CS 170)

## EXPERIENCE

### Zip

San Francisco, CA

Software Engineering Intern (Infrastructure Team)

June 2023 - Aug 2023

- ❖ Automated the creation and management of cloud-hosted development environments for 70+ engineers using Bash Scripting, SSH tunneling, and AWS (EC2, VPC, Cloudwatch)
- ❖ Launched EC2 instances with pre-installed dependencies directly in Zip's VPC, reducing developer setup time by 95% and allowing engineers to seamlessly access the VPC's stateful services (ElasticSearch Clusters, MySQL DB)
- ❖ Implemented a cost-saving Cloudwatch alarm system that automatically stops EC2 instances with low CPU utilization
- ❖ Reduced ElasticSearch reindex time, using database sharding to split up work and parallel Kubernetes pods to process work efficiently
- ❖ Leveraged job duration logs stored in AWS S3 to dynamically rebalance job assignments for parallel workers, distributing work evenly

### DoorDash

Seattle, WA

Software Engineering Intern (iOS Infrastructure Team)

May 2022 - Aug 2022

- ❖ Developed the Consumer App's analytics events module (tracks user actions) and network requests module (stores all backend network requests) using Swift, SwiftUI, and XCTest
- ❖ Leveraged Swift data bindings and Combine publishers to develop modules with an MVVM architecture, improving code modularity
- ❖ Created unit and snapshot tests with XCTest for restaurant view-models and displays, increasing the Consumer App's test coverage

### Aurora Solar

Berkeley, CA

Software Developer

Aug 2021 - Dec 2021

- ❖ Contracted by Aurora Solar through Berkeley Codebase to develop an admin portal using React, Blueprint.js, Docker, and Makefiles
- ❖ Utilized React hooks and the Fetch API to build a backend-integrated tenant space, allowing admins to search for and modify tenants
- ❖ Designed Dockerfiles and Makefiles to containerize the admin app and automate Docker image builds across different environments

### Postman

Berkeley, CA

Software Developer

Jan 2021 - May 2021

- ❖ Contracted by Postman through Berkeley Codebase to create a suite of public cloud integrations, enabling Postman users to leverage Azure and AWS services in their APIs (250+ forks, 10k+ views)
- ❖ Chained HTTP requests to Azure and AWS service endpoints to develop a website management integration, allowing users to manage API Schema, design authentication flows, and create blobs in the cloud directly from Postman

### Web Design (CS 198) Course Staff

Berkeley, CA

Course Instructor

Jan 2021 - Present

- ❖ Lecturing and creating homeworks for CS 198, the leading web development class at UC Berkeley with 120+ students per semester
- ❖ Helping students use HTML, CSS, Javascript, and Figma to build their own websites from scratch

## PROJECTS

### Java Version Control System → *GitHub available upon request*

- ❖ Built a Version Control System with Java that mimics Git's functionality, supporting commands like *commit*, *branch*, *merge*, and *checkout*
- ❖ Designed a SHA-1 file hashing system that uses HashMaps and Java's Serializable interface to efficiently persist file data in blobs

### Berkeley Student Cooperative Workshift Portal → *GitHub available upon request*

- ❖ Contracted by BSC through Cal Blueprint to develop a workshift portal using React, Typescript, Firebase, Redux, and MaterialUI
- ❖ Created a modal that streamlines shift assignment, automatically matching workers to shifts based on availabilities and preferences

## SKILLS

### Languages

- ❖ Java, Python, Swift, C, HTML, CSS, Javascript, Typescript, SQL, R, RISC-V Assembly, x86 Assembly

### Frameworks/Tools

- ❖ React, Redux, MaterialUI, Firebase, AWS, Azure, Docker, Kubernetes, SwiftUI, XCTest, Bash Scripting, NumPy, Pandas, Git, Figma