

Steven Huang

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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 (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