

# Steven Huang

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## EDUCATION

### The University of California - Berkeley

Berkeley, CA

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

May 2023

- ❖ **Relevant Coursework:** Data Structures & Algorithms, Designing Information Devices & Systems, Discrete Math & Probability Theory, Linear Algebra, Principles & Techniques of Data Science, Circuits, Computational Cognition Models, Web Design

## EXPERIENCE

### Aurora Solar

Berkeley, CA

Software Developer

Aug 2021 - Dec 2021

- ❖ Contracted by Aurora Solar through Berkeley Codebase to develop a customer admin portal using React.js, Blueprint.js, Docker, and Makefiles
- ❖ Utilized React hooks, Blueprint components, and the Fetch API to build a responsive tenant space with full backend integration, allowing users to edit, create, and search for tenants
- ❖ Designed Dockerfiles and Makefiles to containerize the admin app and automate Docker image builds across different environments, expediting web app deployment

### Web Design (CS 198) Course Staff

Berkeley, CA

Teaching Assistant

Jan 2021 - Dec 2021

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

### Postman

Berkeley, CA

Software Developer

Feb 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
- ❖ 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
- ❖ Wrote test scripts in Chai.js to parse API responses from various Azure services (API Management, Blob Storage, AD B2C, Repos) and AWS services (S3, Cloudwatch)

## PERSONAL PROJECTS

### Sorting Visualizer → Website, GitHub

- ❖ Developed a web application using React.js that animates various sorting algorithms to demonstrate how they operate
- ❖ Designed reusable React components to build an interactive front-end, letting users select a sort and control its animation duration
- ❖ Implemented Bubble Sort, Insertion Sort, Selection Sort, Merge Sort, Quick Sort, Heap Sort, Shell Sort, and Counting Sort

### 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
- ❖ Performed tree traversals to navigate through commit history and merge various branches together

### Pathfinding Visualizer → GitHub

- ❖ Utilized Java and JavaFX to develop a program that animates pathfinding and maze generation algorithms
- ❖ Designed interfaces and classes that leverage Java's polymorphism and inheritance features to abstract away implementation details, simplifying animation and pathfinding code
- ❖ Implemented Dijkstra's, A\*, BFS, DFS, Bidirectional BFS, Prim's Randomized Maze Generation, and Recursive Maze Division

## SKILLS

### Languages

- ❖ Java, Python, HTML, CSS, Javascript, SQL, Markdown

### Frameworks/Libraries

- ❖ React.js, Blueprint.js, Chai.js, NumPy, Pandas, JUnit, Selenium Webdriver, Matplotlib, Seaborn, Sklearn, Pygame, JavaFX

### Tools

- ❖ Git, GitHub, Figma, Postman, Microsoft Azure, AWS, Docker, Makefile