

SIMON HUANG

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Education

University of California, Davis

Bachelor of Science in Computer Science

Graduation: Jun 2024

Davis, CA

Coursework: Data Structures and Algorithms, Software Engineering (**Java**), Computer Networks, Operating Systems, Database Systems, Object Oriented Programming, Programming Languages (**Go, Lisp, Prolog**), Intro to Artificial Intelligence, Algorithm Design and Analysis, IOS Development (**Swift UI**), Intro to Computer Graphics (**Web.gl**), Computer Visualizations (**D3.js**)

Technical Skills

Languages: Python, JavaScript, HTML, CSS, C#, C++, Swift, Java

Developer Tools: MySQL, MongoDB, Google Cloud, Docker, Firebase, AWS, Postman, Figma, React Expo, Pinecone, Vercel, Git, Open AI, Trello, Swagger UI

Technologies/Frameworks: Next.js, React.js, Tailwind CSS, Node.js, Express.js, Flask, Material UI, Bootstrap, Jest, React Native, Swift UI, ASP .Net

Relevant Experience

Headstarter AI

Jul 2024 – Sep 2024

Software Engineer Fellow

San Francisco, CA

- Built and deployed 5 AI projects in 5 weeks using **React.js**, **Next.js**, **Tailwind CSS**, **Firebase**, **Vercel**, and **AWS EC2**, following **agile methodologies** with weekly sprints and incorporated **CI/CD** practices for iterative deployment.
- Designed a **mobile/web app** prototype in **Figma** for a tutoring center serving 100+ elementary students; incorporated interactive lessons, progress tracking, and admin performance dashboards.

Projects

AI Rate My Professor Chatbot | *Next.js, React.js, Tailwind CSS, OpenAI, Pinecone*

Sep 2024

- Developed an AI-powered assistant with Retrieval-Augmented Generation (RAG) to recommend top professors based on user prompts, improving user satisfaction.
- Used **Puppeteer** to scrape 50+ professor profiles and upsert them to **Pinecone**, enhancing response accuracy.

Google Code Review Webtool | *Flask.py, React.js, Google Cloud, MySQL, Docker, Jest, PyTest*

Jan 2024 - Jun 2024

- Collaborated with a **scrum** team of 4 to develop a web tool for improving the code review process.
- Built a robust **REST API** using **Flask** and **SQLAlchemy**, with over 20 working routes.
- Optimized user data processing using **Google Cloud MySQL**, reducing retrieval time by 30% and improving application performance.
- Integrated **Vertex AI** for code auto-complete based on review comments, reducing reviewer work time by 40%.
- Deployed front-end and back-end services in separate **Docker** containers on **Google Cloud Run** for global access and reduced server costs by 30%.
- Achieved **65%** front-end code coverage with **Jest**, and **100%** back-end coverage with **PyTest**. Provided detailed documentation for all features and code.

Machine Learning Bill Splitter iOS App | *Swift UI, Firebase*

Jan 2024 - Mar 2024

- Collaborated with a team of 4 using **Agile** practices to develop an iOS app that uses **machine learning** to scan and parse receipts for bill splitting.
- Implemented **Firebase Auth** and **Firestore** to streamline user onboarding.