

Haopeng Zeng

925-428-9029 | haopeng.zeng234@gmail.com | [Portfolio](#) | [Github](#) | [LinkedIn](#)

EDUCATION

B.S in Computer Science (GPA: 3.74), University of California, Santa Cruz

Sep. 2018 – June 2022

SKILLS

Programming Languages: TypeScript, JavaScript, Python, HTML, CSS, SQL, C

Tools and Frameworks: React, React Native, Expo, Redux, Sass, Tailwind CSS, Material-UI, Canvas, jQuery, Jest, Node.js, Express.js, Django, Redis, MongoDB, PostgreSQL, SQLite, Sequelize, AWS, Git, Linux

Algorithm & Design: Data Structures and Algorithms, Object-oriented programming, Multi-threaded programming, Distributed Systems Design, Computer Networks, Computer Graphics, MVC design patterns.

EXPERIENCE

Chinese Alumni Association - UC Santa Cruz

Mar. 2020 - May. 2020

Web Development Engineer Intern

Santa Cruz, CA

- Developed a WeChat mini program using JavaScript, WXML, and WXSS. Independently developed 1/4 of the front-end pages. Responsible for architecting and maintaining the database.
- Contributed to the entire software development cycle utilizing an Agile approach as part of a team of 8.
- Used Git and GitHub for version control.

PROJECTS

Stable | *JavaScript, React, Redux, Sass, Node.js, Express, MongoDB, AWS*

[Live Site](#) | [GitHub](#)

An online eCommerce for furniture

- Developed the **full stack** application with features such as shopping cart, product searching, products sorting and filtering, product reviews, order tracking, admin control panel.
- Integrated **Stripe API** for secure and efficient payment processing.
- Optimized website performance by incorporating the technique of **lazy loading** for product images.
- Utilized **AWS S3** to store and manage product images for better scalability together with **AWS CloudFront CDN** for faster content delivery.

Quick Chat | *JavaScript, React, Redux, Tailwind CSS, Node.js, Express, Redis, PostgreSQL*

[Live Site](#) | [GitHub](#)

A chat application that allows users to communicate through both text and video chat in real-time.

- Developed the **full stack** application with features including real-time direct messaging, group chatting, audio and video calling, screen sharing, online indicators, and emojis.
- Developed **RESTful** APIs using **Express.js**, **Node.js**, and **PostgreSQL**, including **pagination** feature for message history to improve content management and user experience.
- Leveraged **WebRTC** and **WebSocket** to establish real-time video and text messaging capabilities.
- Implemented user authentication using session-based authentication and utilized **Redis** to provide scalable session storage for enhanced performance.
- Created a **rate limiter** to control the rate of incoming requests and reduce backend server overload.

Task Tracker | *TypeScript, Python, React, Redux, Django, PostgreSQL, OpenAI API*

[Live Site](#) | [GitHub](#)

An AI-Integrated task management app designed to help users stay organized and focused.

- Built a **full-stack** web application with note, page, and task management functionality. Implemented keyboard shortcuts to enhance accessibility and efficiency, enabling users to rapidly format pages.
- Built **RESTful** API endpoints with **Django** and **Django Rest Framework**, featuring secure **JWT** authentication and refresh tokens for seamless user authorization.
- Integrated **ChatGPT API** to enable users to leverage AI capabilities for brainstorming ideas and finding solutions for tasks, resulting in an enhanced user experience and improved task efficiency.