Amy Zeng

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EDUCATION

University of California, Santa Cruz
Santa Cruz, CA
September 2022 – June 2026

Bachelor of Science in Computer Science, Third year

PROJECT EXPERIENCE

Multi-Threaded HTTP Server
December 2024

Developer

- Created a multi-threaded HTTP server capable of handling multiple concurrent requests using C.
- Ensured responses conformed to a coherent and atomic linearization of client requests.
- Utilized thread synchronization to ensure no requests were lost or corrupted while preserving the existing thread pool.

NoteFlow
January – March 2025

Frontend Engineer

- Collaborated with a team to develop a full-stack note-taking web application using Agile Scrum methodologies.
- Developed dynamic and responsive user interfaces for AI-powered features, enhancing user interaction and experience.
- Utilized modern frontend frameworks like React to build modular and reusable UI components.
- Designed and implemented intuitive sharing, login, and settings modals.

OTHER EXPERIENCE

Academic Tutor
January 2025 – Present

University of California, Santa Cruz

- Served as a group tutor for a Programming Abstractions course, guiding students in mastering Python concepts.
- Assisted students in debugging code and optimizing solutions.
- Led group tutoring sessions to explain data structures, algorithms, and object oriented programming principles.

RELEVANT COURSEWORK

Machine Learning Basics: Data Analysis and Empirical Methods, Data Structures and Algorithms, Computer Systems and C programming, Computer Architecture, Programming Abstractions: Python, Principles of Computer Systems Design, Introduction to Software Engineering

SKILLS

Languages: English (native), Mandarin Chinese (proficient)

Technical Skills: Python, C, C++, JavaScript/TypeScript

Other: Agile, Jira, Git, React