Zifeng Hu

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San Gabriel, California

SKILLS

- Collaboration
- Problem-solving
- Communication

- Basic data structures
- Algorithms
- Operating Systems

- Experience with C/C++, Python, Javascript, ExpressJS
- Computer systems and client-server systems

EDUCATION

Expected in June 2026 — **Bachelor of Science**, University of California - Santa Cruz
- Relevant Coursework in Data Structure and Algorithm,
- Operating Systems Coursework assignments on HTTP servers
- Course work on basic machine learning
- Theoretical topics, algorithm runtimes
- Software Developing in team using Scrum practices

Projects

Multithreaded HTTP Server | C, Linux, Sockets, Multithreading
- Implemented core functionalities of basic HTTP server supporting GET and PUT requests using C.
- Implemented multithreading with pthreads to handle multiple client requests concurrently.
- Used synchronization mechanisms (mutex, condition variables) to prevent race conditions.
- Improved request handling efficiency and reduced response time by optimizing resource allocation.

PinPoint | Mobile app development, Backend Developer
Apr 2025 – Jun 2025
- Built RESTful Node.js/Express endpoints for user signup/login and "pin" CRUD.
- Secured credentials with bcrypt-hashed passwords and JWT-based authentication.
- Generated all resource IDs with the UUID library.
- Hooked in geospatial logic (geolib) to detect when a new pin fell within a user's watch-zone and send an Expo push notification.
- Wrote a comprehensive Jest + Supertest suite covering auth flows, pin/watcher operations, and edge cases.
- Worked in a five-person Scrum team: decomposed user stories, estimated with planning poker, led daily stand-ups, and performed peer code reviews.

EXPERIENCE

April 2019 – January 2020 — **Student Tutor**, Tree of Life – Temple City, CA
- Tutored students in various subjects, improving their understanding and study habits.
- Collaborated with other student tutors and students, during activities and work.
- Used positive reinforcement to encourage and build confidence in students.
- Taught students study skills, note-taking skills, and test-taking strategies.