Hanson Nguyen

San Jose, CA

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Experience

Symmetry Laser **June 2023 – Present**

Software Engineering Intern *Davis, CA*

- Employed Flask, efficient SQL queries, and multithreading to optimize graphical data visualizations featuring real-time updates and better stability
- Minimized the number of late jobs by **30%** with an efficient job scheduling algorithm and built a full-stack application using React
- Reduced upload time for logging application events by **50%** from 8 to 4 seconds and revamped functionality using Python and InfluxDB
- Streamlined PDF filing process by developing a PySide application, saving countless hours of manual work

AggieWorks **January 2023 – Present**

Software Engineer *Davis, CA*

- Collaborated with a team of 20 developers, designers, and project managers in an AGILE work environment to build applications for nearly **40,000** students using React, TypeScript, Supabase, and Prisma
- Reduced API latency caused by storing data and images by **80%** from 5 to 1 second, resulting in faster load times
- Implemented responsive user interfaces using Next.js and TailwindCSS, resulting in higher user engagement

Computers 4 Kids **October 2022 – Present**

Web Technician *West Sacramento, CA*

- Increased unique site visitors by **50%** and accumulated over **25,000** page views by developing web pages using HTML and CSS that promoted e-waste recycling and affordable internet access opportunities

Projects

SmartNotes | *Python · OpenCV · Google Cloud Vision · OpenAI · Tkinter* **June 2023**

- Programmed a Python application to enhance handwritten notes using OCR and AI technologies
- Employed image processing techniques to enhance the quality of handwritten notes, resulting in a **50%** improvement in Cloud Vision's OCR outputs
- Incorporated OpenAI's language model capabilities to enhance the quality of generated summaries and analyses

Workout Tracker | *React · Node.js · Express · MongoDB* **February 2023 – March 2023**

- Built a full-stack workout tracker application with various features such as workout logging and exercise tracking
- Developed the backend of the application using Node.js and Express, creating API endpoints for data retrieval and manipulation
- Incorporated user authentication and authorization using JSON Web Tokens (JWTs) and bcrypt for password hashing

Technical Skills/Certifications

Languages: Python, JavaScript/TypeScript, C++, C, HTML, CSS
Technologies/Frameworks: React/React Native, Node, Express, Flask, SQL/NoSQL, Linux
Developer Technologies: Cloud Services (AWS, GCP), Git, Bash
Certifications: AWS Certified Cloud Practitioner

Education

University of California, Davis **September 2021 – June 2025**

B.S. in Computer Engineering |Minor in Technology Management |GPA: 3.8/4.0 *Davis, CA*

- Dean's List Fall 2021, Spring 2022, and Winter 2023: Recognized among the top **16**% of GPA in College of Engineering
- 2023 ECE Texas Instruments Scholarship: Awarded for academic excellence and commitment to Computer Engineering

Relevant Coursework

- Data Structures and Algorithms
- Object-Oriented Programming
- Programming and Microcontrollers
- Intro to Digital and Analog Systems
- Circuits I & II
- Computer Architecture
- Engineering Design

Leadership / Extracurricular

IEEE at UC Davis **December 2021 – June 2023**

Treasurer *University of California, Davis*

- Led finance team of 4 to acquire sponsors and funding for events with up to **120** attendees, comprising of students, faculty, and industry professionals
- Secured and allocated a budget of **$8,000**+ for workshops, company representative events, and social gatherings that helped students develop their career goals and deepen their understanding of engineering fundamentals