HANSON NGUYEN

San Jose, CA — Open to Relocate/Remote

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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
- IEEE (Treasurer): Led finance team of 4 to secure and manage **$8000+** for engineering workshops and social events

Experience

Symmetry Laser   **June 2023 – Present**
Software Engineering Intern   *Davis, CA*
- Minimized the number of late jobs by **30%** with an automated job scheduling algorithm and built a full-stack application using React and Flask
- Reduced upload time for logging application events by **50%** from 8 to 4 seconds using Python and InfluxDB
- Employed Flask, efficient SQL queries, and multithreading to build **12+** data visualizations for employees, improving the manufacturing workflow
- Saved over **100** hours of manual work by automating the filing process of COCs with a user-friendly PyQT application

AggieWorks   **January 2023 – Present**
Software Engineer   *Davis, CA*
- Collaborated with a team of 20 developers, designers, and product 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

Cabin Booking | *Next.js · Go · AWS · MongoDB · Redis*   **August 2023**
- Worked with 1 other peer to build a full-stack booking website for a private client
- Architected a robust REST API using Go and MongoDB for efficient database management
- Decreased API response time by **50%** by implementing a Redis caching layer
- Initiated continuous integration and deployment of serverless API with Github Actions, utilizing AWS Lambda and AWS API Gateway for efficient scaling
- Integrated secure authentication in API routes and frontend using AWS Cognito and JSON Web Tokens

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 **33%** improvement in Cloud Vision's OCR outputs
- Incorporated OpenAI's language model capabilities to enhance the quality of generated summaries and analyses

Pawfect Sitters | *Firebase · Auth0 · Next.js · Express.js · Node.js*   **May 2023**
- Teamed up with 3 peers to create a full-stack app linking pet sitters and owners under a tight deadline
- Developed and defined the backend infrastructure using Node.js and Express for the API and server functionality
- Managed pet data securely through MongoDB while utilizing Firebase for image hosting

Technical Skills/Certifications

Languages: Python, JavaScript/TypeScript, Go, SQL, C++, C, HTML, CSS
Technologies/Frameworks: React/React Native, Next.js, Node.js, Express.js, Flask, Sass
Databases and Cloud: SQLite, MongoDB, Firebase, InfluxDB, Redis, AWS (EC2, Lambda, Cognito, IAM), GCP (Cloud Vision)
Developer Tools: Git, Github Actions, Docker, Bash, Linux
Certifications: AWS Certified Cloud Practitioner