

Tyler Huynh

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EDUCATION

University of California, Davis

Bachelors of Science in Computational Cognitive Science (Computer Science Emphasis)

Davis, CA

August 2025

EXPERIENCE

Chevron

Full Stack Software Engineer Intern

Davis, CA

April 2025 – July 2025

- Collaborated with product managers and designers to deploy a web-scraping tool that automated sustainability data collection, reducing research time by **88%** (4 hours to 30 minutes) with **95%** summarization accuracy
- Integrated OpenAI's API with a complex **Python**-based scraping pipeline to extract and summarize data, and engineered a full-stack web application with **Next.js**, **FastAPI**, and **PostgreSQL** tailored to clients' needs
- Led frontend architecture by coordinating tasks among teammates, integrating APIs, and streamlining components, aligning with UI/UX standards to maintain dashboard consistency and guiding schema design

CodeLab

Open-Source Software Developer and Mentor

Davis, CA

February 2025 – April 2025

- Created a **Stepper** component from scratch and refactored ShadCN's **Progress Bar** using **TypeScript** and **Tailwind CSS** for club's component library, and used **Storybook** for technical documentation and use cases
- Advised peers through pull request reviews and mentoring on design implementation and best practices

PROJECTS

AI-Powered Resume Auditor (GitHub)

Python, OpenAI API, Anthropic API, asyncio, pytest

November 2025

- Developed a CLI tool that parses resumes against job descriptions using AI to identify missing keywords, generate optimized bullet rewrites, and recommend quick-learn skills, streamlining the process of tailoring job applications
- Designed an async pipeline coordinating GPT-4 and Claude with QA feedback loops, using **Pydantic** for type-safety and **HTTPX** for simultaneous API calls that cross-verify LLM outputs to prevent hallucinations

Real-Time Hand Gesture Recognition (GitHub) (Demo)

Python, TensorFlow/Keras, OpenCV, Gradio

September 2025 – November 2025

- Built a full-stack computer vision application using machine learning to classify 12 hand signs with **93% accuracy**, enabling live webcam streaming that delivers instant prediction feedback through an interactive web interface
- Implemented an end-to-end ML workflow from data collection (custom **OpenCV** script) to deployment: trained **VGG16** model with transfer learning and data augmentation, and deployed inference backend on **Gradio**

CoDraw (GitHub) (Demo)

React, TypeScript, Vite.js, Tailwind CSS, Cloudflare Workers and Durable Objects, WebSockets

October 2025

- Developed a lightweight collaborative chalkboard web application that enables multiple users to draw simultaneously through WebSocket-based synchronization, while achieving a **sub-500ms** load time
- Utilized a serverless backend with **Cloudflare Workers** and **Durable Objects** to manage real-time room-based connections, and implemented state sync protocol ensuring consistent canvas state for all concurrent users

UCD HackNight Grant Recipient: MiPi5

Raspberry Pi 5, PiVPN (WireGuard), Pi-hole, RetroPie, Jellyfin

March 2025 – June 2025

- Gained knowledge about system configuration and network security expertise, alongside self-learning and technical presentation through exploration of weekly Pi5 home-lab projects, which were then demoed to live audiences

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Java, C, C#, C++, HTML/CSS, SQL, Bash

Technologies: React.js, Node.js, Next.js, Vite.js, Vercel, Git, Render, Docker, Azure, Cloudflare, PostgreSQL, MySQL, Supabase, TensorFlow, OpenCV, NumPy, Figma, AWS, ShadCN, RadixUI, Redux

Concepts: Data Structures and Algorithms, System Design and Development, Object-Oriented Programming, Frontend, Backend, Software/Web/Game Development, Version Control, Agile Methodologies, Testing and Debugging, RESTful and GraphQL APIs, API Security (CORS, Rate Limiting), WebSockets, Figma Collaboration