Tyler Huynh

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Technical Skills

Languages: Python, TypeScript, JavaScript, Java, C, C#, C++, HTML/CSS, SQL, Bash
Frameworks & Libraries: React, Next.js, Node.js, RadixUI, TensorFlow/Keras, Gradio, OpenCV, NumPy, Pydantic
Databases & Platforms: PostgreSQL, MySQL, Supabase, Vercel, Render, Cloudflare, Azure, AWS
Developer Tools: Git, Docker, Vite, ESLint, Prettier, Figma, Storybook, pytest, n8n
Core Concepts: Data Structures and Algorithms, Object-Oriented Programming, Full Stack Development, System Design, Version Control, Agile Methodologies, Testing and Debugging, RESTful/GraphQL APIs, WebSockets, Asynchronous Programming, LLM Integration, Prompt Engineering, Deep Learning, Computer Vision

Education

University of California, Davis — Davis, CA
Bachelors of Science in Computational Cognitive Science (Computer Science Emphasis) — *August 2025*

Experience

Chevron — Davis, CA
Full Stack Software Engineer Intern — *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
- Directed frontend architecture by establishing component guidelines, outlining schema structure, and reviewing teammates' code to ensure consistency with UI/UX principles and streamline production of scalable dashboard

CodeLab — Davis, CA
Open-Source Software Developer and Mentor — *February 2025 – April 2025*

- Designed **Stepper** component and refactored ShadCN's **Progress Bar** using **TypeScript** and **Tailwind CSS**
- Wrote technical documentation with **Storybook**, detailing component variants and use cases for club's UI library
- 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