Tyler Xiao

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EDUCATION

University of California, Los Angeles   September 2024 - June 2027
B.S. in Computer Science and Engineering
- **GPA: 3.93/4.0** — 2x Dean's Honors List
- **Coursework:** Data Structures and Algorithms, Software Construction, Computer Organization, Machine Learning, Operating Systems
- **Clubs:** ACM ICPC Competitive Team, Upsilon Pi Epsilon@UCLA, VEST@UCLA, Symphony Orchestra
- **Awards:** Lettuce-Eating Competition Winner, USACO Gold, Hackathon Winner

EXPERIENCE

SafetyKit — Member of Technical Staff — *TypeScript, Python, AWS, Next.js*   June 2025 — Sept 2025
- First engineering intern at a **Series A Y Combinator (W'23)** startup; worked directly with founders
- Raised recall of a global product-recall analyzer from **7.1% → 60%+** by improving **embedding-spowered semantic/keyword search**
- Cut **$500k+/yr** in OpenAI API spend by replacing GPT-4o calls with **database/semantic search**
- Built an end-to-end daily ingestion pipeline (**cron + Scrapy**) to collect product data and a **Datadog** dashboard for monitoring
- Implemented a **Model Context Protocol (MCP)** server in **Next.js** to connect internal tools w/OpenAI models
- Improved site-wide product collection reliability from **65% → 99.9%**, helping secure a **$300k+** pilot contract

Scale AI — Technical Advisor Intern — *Python, C++*   Nov 2024 — June 2025
- Delivered **25+** high-complexity tasks to train **Generative AI** on tree reasoning + chain-of-thought using Olympiad-level problems
- Consistently ranked **top-5** among interns by delivering **5–10** high-quality coding tasks per week
- Conducted **red-teaming** to evaluate model safety; designed **prompt-engineering** workarounds for **10+** unsafe requests

ZNest.ai — Full-Stack Software Developer — *Python, Scrapy, React*   Jan 2025 — Mar 2025
- Deployed a full-stack **web scraper** in **React + Scrapy** to capture real-time senior housing news.
- Reduced application latency by **95%** using **multithreading**, **concurrency**, and **timeout** tuning.
- Built an article relevancy **ranking system** with **cosine similarity** to match keywords and recency.

PROJECTS

DocuPilot — *React, Python, FastAPI, LangChain, Gemini, Google Drive API, Git*   Apr 2025
- Led 3 developers and code reviews to build an **agentic AI** Google Drive automation tool that interprets natural-language requests to manage files.
- Implemented a multi-step **LangChain** workflow integrated with the **Google Drive API** to automate file operations and improve UX.

Grow and Give — *Swift, SwiftUI, Xcode, MongoDB, Git*   Nov 2022 — Apr 2023
- Designed end-to-end app features: **SwiftUI** frontend, backend integration, and user data consolidation via **MongoDB** API.
- Increased user engagement/productivity by **36.5%** vs. control through iterative UI/UX improvements.

SKILLS

Languages: Python, Java, C, C++, TypeScript, JavaScript, Swift, SQL, Bash, HTML/CSS, Lisp
AI/ML: LLMs (OpenAI, Gemini), **embeddings**, **semantic/vector search**, LangChain, TensorFlow, Keras, pandas, NumPy
Web/Backend: FastAPI, Flask, React, Node.js, Next.js, REST
Cloud & Infra: AWS, Docker, Datadog, Linux, Git, CI/CD (GitHub)
Data & Tools: Scrapy, Selenium, Jupyter, Matplotlib, MongoDB, PostgreSQL, Postico