

Tyler Lui

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EDUCATION

Cal State Fullerton

Bachelor of Science in Computer Science

Fullerton, CA

Aug. 2023 – Present

EXPERIENCE

Software Engineering Fellow

July 2024 – Present

HeadStarter

Remote

- Developed 5+ AI Apps utilizing Next.JS, OpenAI, Pinecone, Stripe API with 98% accuracy as seen by 1000 users
- Developed projects from design to deployment alongside 4+ engineering fellows using MVC patterns
- Coached by Amazon, Bloomberg, and Capital One engineers on Agile, CI/CD, Git, and microservice patterns

PROJECTS

Reddit Video Maker Bot | *Python*

May 2023

- Contributed to the integration of a text-to-speech API in an open-source project that created short form videos from Reddit content
- Tailored the bot using this integration that its videos generated over \$12,000 in revenue from TikTok
- Achieved significant engagement on TikTok and Instagram, amassing over 40 million views, 47,000 followers, and 4.3 million likes

C&C Jewelry | *OpenAI Vision, Flask, React.js, Typescript, BackBlaze, Supabase*

June 2024

- Built an e-commerce website utilizing OpenAI's vision model, reducing product data entry time by 30%
- Displayed products to users with dynamically updated information, increasing user engagement by 40%
- Integrated real-time gold price tracking, improving pricing accuracy
- Implemented CRUD operations with a Supabase database, streamlining product management
- Enhanced productivity for the business owners by reducing manual data entry and optimizing pricing

Clear Cosmetics | *MLH | Next.js, Flask, Chroma, OpenAI API, TypeScript*

August 2024

- Developed an AI-driven application using OpenAI's GPT-3.5 to provide consumers with transparent insights into cosmetic products
- Built a responsive full-stack solution, offering a user-friendly interface for informed purchasing decisions
- Implemented a successful RAG (Retrieval-Augmented Generation) system, to ensure accurate product information

ACTIVITIES

Association for Computer Machinery (ACM)

September 2023 – Present

Open Source Systems Officer

Fullerton, CA

- Led a project overseeing 6 student developers, guiding their contributions to various projects
- Coordinated team efforts using front-end techniques and the Svelte framework to enhance user experience
- Conducted progress meetings to assign tasks, review project milestones, and ensure successful project completion

TECHNICAL SKILLS

Languages: Python, C++, JavaScript, HTML/CSS, Swift

Frameworks: Flask, React.js, Node.js, Django, Vue.js, SvelteKit

Databases: Sqlite, Postgres, MongoDB, Pinecone, Chroma

Libraries: Pandas, NumPy, Matplotlib, BeautifulSoup4