Aryan Vora

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EDUCATION

University of California, Santa Cruz Santa Cruz, CA

Bachelor of Science in Computer Science, College Scholars Program *Sep 2022 - June 2025*

EXPERIENCE

Software Engineer Intern Jan. 2025 – May 2025

UXLY *Santa Cruz, CA*

- Developing a **multi-agent sales chatbot** with **LangChain** and **LlamaIndex**, using **Retrieval-Augmented Generation (RAG)** to provide accurate, context-aware responses to product inquiries.
- Built a system to query and extract product information from large datasets and catalogs, supporting queries such as **product specifications, pricing, availability, and recommendations. Used the BM25 relevance scoring algorithm to accomplish this.**
- Built the backend using **FastAPI**, and designed and built the full ecommerce website frontend using **React and TypeScript**.

Research Assistant Jun. 2024 – Aug. 2024

Digital Camera and Computer Vision Lab @ National Taiwan University *Taipei, Taiwan*

- Collaborated on the development of a **real-time hand tracking and gesture recognition system** for AR smart glasses, integrating **Time-of-Flight (ToF)** sensors with **Mediapipe** for precise 3D hand reconstruction and interactive capabilities.
- Optimized the system's ability to simultaneously process ToF depth data and hand landmark tracking, resulting in a **60% FPS improvement** (from 15 to 24 FPS), significantly improving real-time performance.

Software Engineering Intern Jul. 2023 – Mar. 2024

Squeezee *Remote*

- Built a cross-platform **receipt-scanning app** using **React** and **Firebase**, integrating **OCRSpace** and an **LLM** to extract and structure data. Used **Firebase Storage, Functions, and Secret Manager**; deployed with **GCP**.
- Developed and deployed a **price-comparison API and Flask site** using **web scraping**; hosted using **Heroku** for real-time e-commerce aggregation.

PROJECTS

Multithreaded HTTP Server | C

- Designed and implemented a multi-threaded HTTP server supporting concurrent **GET** and **PUT** requests, fully compliant with **HTTP/1.1** standards.
- Optimized file I/O for large binary files (up to 2GB) using custom buffering and temporary file functions to ensure responsiveness during heavy disk operations.
- Improved server throughput and stability by fixing concurrency bugs and implementing a **dispatcher-worker thread pool**, passing 50+ edge-case tests.

BiteRight | Next.js, Deno, Supabase, ClerkJS

- Led a team of 5 using **Agile/Scrum**, managing sprints, assigning tasks, and driving timely project delivery.
- Collaborated with backend developers to define and document consistent **API endpoints** in **Deno**, ensuring smooth data flow and integration.
- Built core pages in **Next.js**, including the **home page, dashboard**, and dynamic **recipe pages** backed by Supabase.

TECHNICAL SKILLS

Languages: Python, JavaScript, HTML/CSS, C/C++, Java, UNIX Shell Scripting
Frameworks: React, Node.js, Deno, Flutter, Flask, Nextjs, Expo
Developer Tools: Git, Bash, AWS, GCP, Docker, Postman, Figma, Microsoft 365, Google Workspace (Docs, Sheets, Slides)