Aryan Vora

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EDUCATION

University of California, Santa Cruz <div align="right">Santa Cruz, CA</div>
Bachelor of Science in Computer Science, College Scholars Program <div align="right">*Sep 2022 - June 2025*</div>

EXPERIENCE

Software Engineer Intern <div align="right">Jan. 2025 – May 2025</div>
UXLY <div align="right">*Santa Cruz, CA*</div>

- Developing a **multi-agent sales chatbot** with **LangChain** and **LlamaIndex**, using **Retrieval-Augmented Generation (RAG)** to provide accurate, context-aware responses to product inquiries.
- Building a system to query and extract product information from large datasets and catalogs, supporting queries such as **product specifications, pricing, availability, and recommendations.**
- Built the backend using **FastAPI**, and a designed and built the frontend using **React and TypeScript** allowing the web app to use a **proxied LLM**

Research Assistant <div align="right">Jun. 2024 – Aug. 2024</div>
Digital Camera and Computer Vision Lab @ National Taiwan University <div align="right">*Taipei, Taiwan*</div>

- 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 <div align="right">Jul. 2023 – Mar. 2024</div>
Squeezee <div align="right">*Remote*</div>

- Developed a cross-platform **receipt-scanning application** using **React** for the frontend and **Firebase** for the backend, ensuring seamless functionality across devices.
- Integrated **OCRSpace** for text extraction from scanned receipts and parsed and validated OCR results using a **Large Language Model (LLM)**, converting unstructured text into structured, accurate data for storage and future analysis.
- Created a robust **price-comparison API and website** using **web scraping** techniques for real-time data aggregation from multiple e-commerce platforms, and deployed a **Flask-based** website to showcase the API's capabilities.

PROJECTS

BiteRight | Next.js, Deno, Supabase, ClerkJS

- Led a team using **Agile** and **Scrum**, distributing tasks and ensuring smooth project execution.
- Designed the **UI/UX** in Figma and V0, creating a modern, user-friendly interface.
- Developed key pages in Next.js, including the **home page, dashboard, and a generated recipe page** for each recipe in the database.

Emulator | C++

- Collaborated with a team of five to develop the **Banana Emulator**, designed to run games using **.slug** file formats, with a modular architecture including **Console, Memory, CPU, and GPU components**.
- Implemented a custom **.slug file parser**, a **GUI launcher**, video recording, input recording/playback, and a debugger with breakpoints and stepping. Utilized **SDL** for graphics rendering and input handling.

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)