

Arav Sarma

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Full-stack engineer focused on AI-assisted development, API integration, and practical developer workflows. Experienced building and presenting end-to-end applications, partnering with clients, and explaining technical tradeoffs across technical and nontechnical audiences.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C, C++, HTML, CSS, SQL

Frameworks & Tools: React, Next.js, Node.js, FastAPI, Git, PostgreSQL, XGBoost

AI & Agentic Tools: Anthropic SDK, Claude Code, LLM integration & prompt engineering, AI-assisted development workflows

SELECTED PROJECTS

Co-Creator— PortFlo: Supply Chain Risk Intelligence Dashboard — *Python, FastAPI, React, Mapbox GL, Gemini API*

- 1st place in the Base44 track, placed top 5 of 71 teams at QuackHacks 2026
- *Supply chain managers react to disruptions instead of anticipating them; no real time feed correlating global events to their routes*
- Building an MVP ingesting user supplier/route data, correlating against live disruption feeds (NOAA, NASA EONET, USGS)
- Integrated Gemini API to generate contextual risk briefings for chokepoints
- FastAPI backend with real-time feed polling; React/Mapbox frontend with live disruption overlays

Financial Portfolio Analyzer — *React, Node.js, PostgreSQL, Anthropic SDK, Alpha Vantage API*

- *Individual investors lack personalized recommendations accounting for risk tolerance and market conditions*
- Integrated Claude AI (claude-sonnet-4-6) for portfolio analysis driven by user-defined risk profiles (Conservative to Aggressive) — demonstrating hands-on LLM integration and prompt engineering in a production context
- Implemented JWT authentication, 15-minute price caching, and analysis history storage across four PostgreSQL tables; architected for scalability from the ground up

F1 Win Probability Predictor — *Python, XGBoost, FastAPI, React, FastFI*

- Trained an XGBoost classifier on 2021–2024 Formula 1 race data to predict per-driver win probabilities with per-round querying
- Built a FastAPI backend with model caching (joblib) to eliminate retraining overhead, paired with a React/Vite frontend
- Applied data engineering best practices: feature extraction, model evaluation, and clean API design

Echo — AI Voice Interaction System — *Python, voice synthesis, real-time AI backend*

- AI-powered real-time voice interaction system in a group hackathon, integrating text and voice synthesis end-to-end
- Developed a frontend connected to a Python-based AI backend using real-time voice synthesis models

EXPERIENCE

Co-Founder & Developer | Web & Marketing Agency, San Jose, CA 2024 – Present

- Built and operate a web development and digital marketing agency serving local businesses
- Designed client websites with automated scheduling systems, reducing manual booking overhead for clients
- Drove measurable growth in client digital presence through SEO optimization and targeted social campaigns

Software Developer | Oregon Software Consulting (OSC), Eugene, OR Sept. 2024 – Present

- Collaborate with a cross-functional team using React & TypeScript to build a full-featured auction platform for the University of Oregon
- Partner with non-profits to scope, design, and deploy software solutions that streamline client operations
- Practice agile development: participate in code reviews, maintain version control via Git, and write unit tests to ensure platform stability

Sales Associate | City Sports Club, San Jose, CA July 2023 – Sept. 2023

- Managed the full membership sales cycle — from cold outreach and digital campaigns to in-person close — consistently exceeding weekly targets
- Identified gaps in club visibility and independently proposed and executed marketing initiatives, demonstrating ownership beyond the core role

Sales & Service Associate | 24 Hour Fitness, San Jose, CA July 2023 – Sept. 2023

- Utilized Microsoft Dynamics CRM to track membership pipeline and sales activity. Familiarity with enterprise-grade business software
- Managed walk in and over the phone sales and enrollment. Balanced multiple customer interactions and operational tasks

EDUCATION

University of Oregon — Eugene, OR

B.S. in Computer Science, Minor in Entrepreneurship

Coursework: Data Structures, Software Development, C Systems Programming, Python Programming, Entrepreneurial Marketing & Accounting