

Arav Sarma

(408) 628-8445 | aravsarma@gmail.com | [linkedin.com/in/arav-sarma](https://www.linkedin.com/in/arav-sarma) | github.com/AravSarma | aravsarma.com

EDUCATION

University of Oregon — Eugene, OR *Expected Fall 2026*

B.S. in Computer Science, Minor in Entrepreneurship

Relevant Coursework: Data Structures, Software Development, C Systems Programming, Python Programming

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

EXPERIENCE

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

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

Sales & Service 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*

- Handled daily walk-in sales and membership enrollment, balancing multiple customer interactions and operational tasks simultaneously
- Utilized Microsoft Dynamics CRM to track membership pipeline and sales activity, building familiarity with enterprise-grade business software

PROJECTS

PortFlo — Supply Chain Risk Intelligence Dashboard — Python, FastAPI, React, Mapbox GL, Gemini API

- Won 1st place in the Base44 track and placed top 5 of 71 teams at QuackHacks 2026 with a supply chain risk intelligence platform
- Built a FastAPI backend with domain-separated routers integrating NOAA, NASA EONET, USGS, and World Bank APIs, plus a custom shortage-risk scoring algorithm combining supply concentration (HHI), geopolitical risk, and price momentum
- Developed a React/Vite frontend with an interactive Mapbox globe visualizing global trade routes and chokepoints, with Gemini-powered AI risk briefings
- Demo at: portflo.org

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

- Built a full-stack AI-powered web app for tracking stock holdings, fetching live market prices, and generating personalized investment recommendations
- 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

- Built an 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

Think.ly — React (TypeScript), Python, Next.js, SQL

- Collaboratively building a think tank and employment platform connecting student-run businesses with opportunities
- Contributing to full-stack architecture: TypeScript React frontend, Python/Next.js backend, SQL data layer