

Arav Sarma

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EDUCATION

University of Oregon | Eugene, OR Oct. 2022 – Present
B.S. in Computer Science, Minor in Entrepreneurship Expected June 2026

- Courses: Data Structures, Python Programming, C Systems Programming, Software Development

TECHNICAL SKILLS

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

Frameworks & Tools: React, Next.js, SQL, Git, Microsoft Dynamics CRM

Areas: AI/ML integration, data analysis, full-stack web development, SEO & digital marketing, Sales

RELEVANT EXPERIENCE

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

- Collaborating with a team using React & TypeScript to build an auction platform for the University of Oregon
- Partnering with charities and non-profits to implement and streamline software solutions for their operational needs

Web & Marketing Agency | San Jose, CA June 2025 – Present
Co-Founder & Developer

- Built and operate a web and marketing agency serving local businesses in the San Jose area
- Designed and developed client websites with automated scheduling systems to streamline customer interactions and appointment booking
- Boosted clients' digital presence through SEO optimization and targeted social media marketing campaigns

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

- Exceeded daily and weekly sales targets through cold outreach, digital campaigns, and in-person engagement
- Developed marketing initiatives to enhance club visibility and drive membership sign-ups

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

- Managed daily operations including walk-in sales and membership enrollment
- Utilized Microsoft Dynamics CRM to streamline membership and sales tracking processes

PROJECTS

Financial Portfolio Analyzer Personal Project

- Built a full-stack AI-powered web app enabling users to track stock holdings, fetch live market prices, and receive personalized investment recommendations
- Integrated Claude AI (claude-sonnet-4-6) for portfolio analysis based on user-selected risk profiles (Conservative to Aggressive)
- Tech stack: React 18, Vite, TailwindCSS, Recharts, Node.js, Express, PostgreSQL, Alpha Vantage API, Anthropic SDK
- Implemented JWT authentication, price caching (15-min TTL), and analysis history storage across four PostgreSQL tables

F1 Win Probability Predictor Personal Project

- Developed a machine learning model to predict Formula 1 race win probabilities using historical race results from 2021–2024 via the FastF1 library
- Trained an XGBoost classifier with per-driver race features; users can query any season and round to see top-5 predicted winners based on the current 2025 grid

- Built a FastAPI backend with a React/Vite frontend, including model caching (joblib) to eliminate retraining overhead on subsequent runs

[Think.ly](#)

- Collaboratively developing a think tank and employment platform connecting student-run businesses with opportunities
- Front-end built with React (TypeScript), backend in Python using Next.js framework and SQL database

Echo AI Hackathon Project

- Built an AI-powered real-time voice interaction system integrating text and voice synthesis in a group hackathon setting
- Developed an intuitive frontend connected to a dynamic Python-based AI backend using voice learning models

Cardiovascular Disease Analysis Academic Project

- Conducted statistical modeling and data analysis on CHD risks for post-menopausal women on HRT
- Applied A/B Testing, Hypothesis Testing, and Bootstrapping methodologies to derive and validate risk probabilities

LEADERSHIP & COMMUNITY

Khalsa Aid Fundraiser March 2021

- Organized a fundraising campaign and raised \$2,000 in aid for farmers in India

UNICEF Fundraiser May 2021

- Raised \$1,500 to support COVID-19 relief efforts through UNICEF

Santa Clara High School | Santa Clara, CA Graduated June 2022

Secretary, History Club | **Member: Coding Club, Personal Finance Club, Car Club**