

Samarth Hiremath

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EDUCATION

University of California, Davis

B.S. in Computer Science and Statistics, Minor in Technology Management

Davis, CA

Expected June 2027

EXPERIENCE

Boston Consulting Group

Data Analyst, Contract

Davis, CA

June 2025 - Present

Optiwise.ai, Inc.

Software Engineering Intern

Davis, CA

January 2024 - June 2024

- Developed **6 responsive web pages** with reusable **React** and **Node.js** components, **reducing code redundancy by 30%** and enhancing system maintainability for long-term scalability.
- Architected a standardized **REST API** with **10 dynamic backend routes** using **FastAPI**. Collaborated with UX designers to integrate the API with the frontend, delivering a fast and responsive user experience.
- Designed a scalable and secure **SQL database** schema with **10+ tables** for efficient data retrieval.

Snap Inc.

Augmented Reality Filter Developer

Bay Area, CA

March 2025 - June 2025

- Built 2D and 3D **AR filters** using **JavaScript** and **animal detection/recognition models**.
- Deployed filters that achieved **20,000+ views**, leveraging iterative user feedback to optimize engagement.

Moober

Product Manager

Davis, CA

April 2025 - Present

- Scaled **UCD-student-exclusive ridesharing app** to **1,100+** from **900 users within 2 months** of joining by leading a cross-functional team of engineers, designers, and marketers using **agile methodology**.
- Led **10+ user interviews**, analyzed user data in **SQL**, and built data-driven enhancements like UI flows, recurring rides, and improved **Cloudflare security**, resulting in **net promoter score (NPS) increasing by 15%**.
- Drove **257% increase** in daily active users by developing marketing campaigns and **Python scripts** for outreach.

RESEARCH

A2H Database, The Tagkopoulos Lab at UC Davis

November 2024 - Present

- Developing a preclinical studies database, **annotating 300+ papers** and automating ontology mapping for **150,000+ disease and drug names** using **Pandas**, **fuzzy matching**, and **data preprocessing**.
- Optimized data extraction, integrating **web scraping & RESTful APIs**, **cutting processing time by 42%**.

PROJECTS

Trajectory.ai – AI Career Planning Assistant ([Demo](#))

2025

TypeScript, Next.js, Python, FastAPI, PostgreSQL, ChromaDB, LangChain, Hugging Face, Kubernetes, Docker, PyTorch

- Developed a full-stack AI platform with **Next.js**, **FastAPI**, and **PostgreSQL** enabling LLM-driven career guidance, personalized roadmaps, and resume-based chat via **Gemini** and **OpenRouter** APIs.
- Implemented **retrieval-augmented generation (RAG)** using **LangChain** and **ChromaDB** with **bge-small-en-v1.5 embeddings** for contextual Q&A from parsed resume data.
- Integrated **PyTorch** model for real-time **job market analysis** and trend forecasting; added **PostHog** for growth analytics and containerized the platform with **Docker** and **Kubernetes** for scalable deployment.

VQ (Vocal Intelligence - AI Speech Coach) ([Demo](#))

2025

TypeScript, JavaScript, React, Vite, Google MediaPipe, Web Speech API

- Developed a prototype **AI-powered communication coaching platform** using **React**, **Vite**, and **TypeScript**, with a fully designed front end ready for real-time speech and gesture analysis.
- Integrated **Google MediaPipe** for body language tracking and **Web Speech API** for speech processing.

TECHNICAL SKILLS

Languages: C++, Python, Java, JavaScript, TypeScript, R, MATLAB, HTML, CSS, MySQL

Technologies: Git, FastAPI, React.js, Node.js, Next.js, Docker, Vite.js, REST, NumPy, Pandas, Excel

Concepts: Software Development & OOP, Algorithm Design & Analysis, Debugging, Web Development, Machine Learning, Computer Architecture, Probability and Statistical Modeling for CS, Agile Methodologies, Management