

Ashwin Murthy

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EDUCATION

University of California, Santa Cruz

Bachelor of Science in Computer Science

- GPA: 3.9 — Dean's List

Santa Cruz, CA

Sep. 2023 – June 2026

TECHNICAL SKILLS

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

Frameworks: Next.js, React.js, React Native, NestJS, Flask, GraphQL

Cloud & DevOps: Docker, AWS Lightsail, API Gateway, GitHub, GitHub Actions, Jira

Libraries: Jest, SQLite, Pinecone, Selenium, Google Gemini, LLMs, RAG

Technologies: Node.js, DynamoDB, multithreading, API development, Cloud deployment

EXPERIENCE

Full-Stack Software Engineer Intern

Mar. 2025 – Present

Ari Innovation

Remote

- Developing backend **RESTful** endpoints using **NestJS** for user registration and authentication via **SSO** or email-based sign-up, enabling up to **300 users** to access their personal **Web3 health wallet**.
- Storing user information securely in **DynamoDB** to ensure scalable and reliable data management.
- Building frontend interfaces using **Node.js** and integrating cloud technologies to enhance application performance and scalability.

Frontend Software Engineer Intern

July 2024 – Aug. 2024

Raise Commercial Real Estate

San Francisco, CA

- Redesigned brokers' deals pages using **React.js** and TypeScript, streamlining workflows and enhancing usability.
- Reduced page load times by 90%** by implementing React lazy loading and optimizing GraphQL queries.
- Developed a comprehensive Jest test suite for user permissions, achieving a **12%** increase in statement coverage, **21.5%** in branch coverage, and **12%** in line coverage—enhancing code reliability.
- Resolved a high-impact edge case bug, improving user permission reliability across the platform.

PROJECTS

Slugtistics | Python, Flask, React, SQLite, AWS (Lightsail, API Gateway), GraphQL

Nov. 2024 – Present

- Created an intuitive course selection platform using **React** and **Flask**, serving **6,000+ unique students** and reducing selection time by **75%**.
- Engineered a Selenium-powered data pipeline to process **1,400+** course records per hour, ensuring reliable data storage in SQLite.
- Optimized GraphQL queries to provide real-time professor reviews and improve decision-making tools.
- Deployed Flask **REST API** with Gunicorn on **AWS Lightsail**, maintaining 99.9% uptime through efficient request routing via API Gateway.
- Implemented a personalized **RAG chatbot** leveraging Pinecone and Google Gemini for course recommendations.

Farmer Feast | Next.js, React, Supabase, Puppeteer, Google Maps API, Vercel

Apr. 2025 – Apr. 2025

- Built and deployed a full-stack web app that helps users find local ingredients from Santa Cruz farmers markets based on any dish.
- Designed responsive landing and search pages using **React**, **Tailwind CSS**, and **Framer Motion** for a smooth UI experience.
- Implemented a shopping trip optimizer in **Next.js** to compute market combinations with the highest ingredient coverage and shortest drive time via Google Maps.
- Scraped **1,000+** product listings using **Puppeteer** and stored structured data in **Supabase** for real-time querying.
- Integrated Google Maps API and geolocation to calculate drive times to markets; showcased live with **200+** searches at **CruzHacks 2025**.

Cruz-Thru | Python, Flask, React, Google Gemini

Oct. 2024 – Oct. 2024

- Built an AI-powered study tool using Flask and React Native to transcribe lectures and generate flashcards.