ASHWIN MURTHY

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EDUCATION

University of California, Santa Cruz — Santa Cruz, CA
Bachelor of Science in Computer Science — *Sep 2023 – June 2026*
- GPA: 3.9 | Dean's List

EXPERIENCE

Software Engineer Intern — Mar 2025 – Present
Ari Innovation — *Remote*
- Developed backend **RESTful APIs** with **NestJS** for secure SSO and email-based user registration, onboarding **300+** users.
- Containerized a local **AWS** environment with **Docker + LocalStack**, accelerating DynamoDB API testing.
- Engineered scalable data storage pipelines using **DynamoDB** to manage user health records reliably.
- Integrated cloud-optimized frontend features using **Node.js**, enhancing application performance and scalability.

Frontend Software Engineer Intern — July 2024 – Aug 2024
Raise Commercial Real Estate — *San Francisco, CA*
- Redesigned brokers' deals pages with **React.js** and TypeScript, improving workflow usability.
- Reduced page load times by **90%** through React lazy loading and GraphQL query optimization.
- Increased Jest test suite coverage by **12%** (statements), **21.5%** (branches), and **12%** (lines).
- Resolved critical edge case bugs, improving user permission reliability.

PROJECTS

Slugtistics | *Python, Flask, React, SQLite, AWS Lightsail, GraphQL* — Nov 2024 – Present
- Built a course selection platform used by **6,000+** students monthly, reducing selection time by **75%**.
- Engineered a **Selenium**-powered pipeline processing **1,400+** course records/hour into SQLite database.
- Optimized **GraphQL** queries for real-time professor review delivery.
- Deployed scalable Flask REST API using **Gunicorn + AWS** with 99.9% uptime.
- Implemented personalized **RAG chatbot** recommendations using **Pinecone + Google Gemini**.

Farmer Feast | *Next.js, React, Supabase, Puppeteer, Google Maps API, Vercel* — Apr 2025
- Developed a full-stack platform helping users locate local farmers market ingredients.
- Designed responsive UI with **Tailwind CSS** and **Framer Motion**.
- Engineered a trip optimizer computing best market combinations using **Next.js** + Google Maps.
- Scraped **1,000+** product listings with **Puppeteer** and stored in **Supabase**.
- Achieved **200+** live searches during **CruzHacks 2025** demo showcase.

Cruz-Thru | *React Native, Flask, OpenAI Whisper, Gemini-1.5 Flash* — Oct 2024 – Nov 2024
- Led a 3-person team to develop a mobile tool for AI-powered lecture summaries and flashcards within a 24-hour hackathon.
- Engineered backend pipelines with **Flask** and **OpenAI Whisper** to deliver accurate and scalable lecture transcription.
- Decreased transcription processing time by **30%** by implementing multithreading and audio file segmentation.
- Integrated **Gemini-1.5 Flash** LLM to generate real-time text summaries and flashcard study materials.
- Built a seamless recording, uploading, and AI processing workflow to enhance accessibility for students.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, TypeScript, C++, SQL, HTML/CSS
Frameworks: Next.js, React.js, React Native, NestJS, Flask, GraphQL
Cloud & DevOps: AWS Lightsail, API Gateway, Docker, GitHub Actions, Jira
Libraries: Jest, SQLite, Pinecone, Selenium, Google Gemini, LLMs, RAG
Technologies: Node.js, DynamoDB, Multithreading, API Development, Cloud Deployment