

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 2027

EXPERIENCE

Software Engineer Intern - Network

Jun 2025 – Aug 2025

Crusoe Energy

San Francisco, CA

- Eliminated 4+ hours of manual device integration per deployment by building an automated sync pipeline (Temporal + webhooks) linking NetBox with NetSpyGlass, and Kentik, enabling instant hands-free onboarding.
- Designed a fault-tolerant, event-driven system with retry and state management to ensure 100% reliable device modifications across APIs.
- Built real-time Slack alerting for workflow failures, enabling proactive troubleshooting and reducing downtime.
- Deployed containerized microservices with Docker + Kubernetes and implemented CI/CD using Argo CD to accelerate production rollouts.

Software Engineer Intern

Mar 2025 – May 2025

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 frontend features using Next.js, enhancing application performance and scalability.

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.

TECHNICAL SKILLS

Programming Languages: Python, Go, JavaScript, TypeScript, C++, SQL

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

Cloud & DevOps: AWS, GCP, Docker, Kubernetes, Argo CD, Jira

Libraries: Jest, SQLite, Pinecone, Selenium

Technologies: Node.js, DynamoDB, Temporal, Webhooks, RAG