

# 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

- Engineered an automated device synchronization pipeline using Temporal and webhooks to integrate NetBox with NetSpyGlass and Kentik, reducing a **4 hour manual process to one minute** per device.
- Implemented a robust, fault-tolerant system with **retry mechanisms** and **state management** to ensure successful device modifications via NetSpyGlass and Kentik APIs.
- Implemented a **Slack alerting system** that sends real-time notifications on workflow failures for proactive troubleshooting.
- Deployed containerized applications using **Docker** and **Kubernetes**, and configured CI/CD workflows with **Argo CD**.

### 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 cloud-optimized frontend features using **Node.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

### Slugistics | 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, JavaScript, TypeScript, C++, SQL, HTML/CSS

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

**Cloud & DevOps:** AWS Lightsail, Docker, Kubernetes, Argo CD, GitHub Actions, Jira

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

**Technologies:** Node.js, DynamoDB, Temporal, Webhooks, Multithreading, API Development, Cloud Deployment, Slack