

# 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

Jun 2025 – Aug 2025

Crusoe Energy

San Francisco, CA

- Eliminated 4+ hours of manual work per device deployment by building an automated sync pipeline using Temporal and webhooks, linking NetBox with NetSpyGlass and Kentik, allowing instant hands-free onboarding.
- Ensured consistent, reliable device updates by designing a fault-tolerant, event-driven system with built-in retry and state management.
- Built real-time Slack alerting for workflow failures, enabling incident visibility and reducing downtime.
- Containerized and deployed microservices via Docker + Kubernetes, with GitLab CI + Argo CD automating 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.
- Improved user experience and application scalability by integrating key frontend features using Next.js.

### 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

### MyClassGrades | Python, FastAPI, GraphQL, PostgreSQL, Supabase

Oct 2025 – Present

- Architected a scalable academic platform to serve normalized course data from 9 universities, handling 16+ concurrent requests via Uvicorn workers.
- Engineered a data pipeline to scrape 2,000+ live enrollment courses per university, alongside managing over 100,000 historical grade records in PostgreSQL.
- Implemented a Verified Anonymity system requiring .edu email verification for all student-submitted reviews, guaranteeing data trust and safeguarding user privacy.
- Optimized API performance by implementing GraphQL dataloaders to resolve N+1 query problems, slashing query latency by 80% (from 1000ms to 200ms).

### Slugtistics | Python, Flask, React, SQLite, AWS Lightsail, GraphQL

Nov 2024 – Present

- Built course platform used by 6,000+ students/month, cutting course selection time by 75%.
- Engineered Selenium pipeline processing 1,400+ course records/hour into SQLite.
- Optimized GraphQL queries for real-time delivery of professor reviews.
- Deployed scalable Flask REST API using Gunicorn + AWS with 99.9% uptime.
- Implemented personalized RAG chatbot recommendations using Pinecone + Google Gemini.

## TECHNICAL SKILLS

**Programming Languages:** Python, JavaScript, TypeScript, SQL

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

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

**Libraries:** Jest, SQLite, Pinecone, Selenium, Strawberry

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