

ASHWIN MURTHY

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EDUCATION

University of California, Santa Cruz <i>Bachelor of Science in Computer Science</i> – GPA: 3.9 Dean's List	Santa Cruz, CA <i>Sep 2023 – June 2027</i>
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EXPERIENCE

Software Engineer Intern <i>Crusoe Energy</i>	Jun 2025 – Aug 2025 <i>San Francisco, CA</i>
– 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 <i>Ari Innovation</i>	Mar 2025 – May 2025 <i>Remote</i>
– 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 <i>Raise Commercial Real Estate</i>	July 2024 – Aug 2024 <i>San Francisco, CA</i>
– 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 <i>Python, FastAPI, GraphQL, PostgreSQL, Supabase</i>	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 <i>Python, Flask, React, SQLite, AWS Lightsail, GraphQL</i>	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