

Aditya Murali

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Education

University of Michigan

May 2027

Bachelor of Science in Engineering, Computer Science

Relevant courses: Reinforcement learning, Intro to Machine Learning, Conversational AI, Statistics and Artificial Intelligence, Web Systems, Intro to Operating Systems, Data Structures and Algorithms

Experience

Intern, Software Engineer, CodeRabbit, San Francisco, CA

May 2026 – Aug 2026

- Built a dual-LLM-judge evaluation harness scoring factual grounding, conciseness, and coverage, and tracking downstream cost and reviewer-quality impact; now used company-wide as the standard tool for evaluating model changes
- Rolled out DeepSeek V4 Flash across 75% of CodeRabbit's OSS-routed file summarizer traffic, cutting cost per call by 5.6% (21% projected at full cache parity) while producing more descriptive summaries with clearer line-range decomposition on large diffs
- Designed and shipped CodeRabbit's automatic multi-repo linking system for the PR review pipeline, combining import-graph analysis, SBOM data, and architecture-based signals with confidence-based ranking to resolve conflicts; scaled to 2,000+ repositories across 232 organizations in production
- Independently identified a prompt-optimization opportunity and shipped a fix removing duplicated file-summary content from the walkthrough-generation prompt, cutting production costs 8-9% while preserving output quality
- Built and launched CodeRabbit's onboarding platform on Vercel, now used company-wide by People Ops, managers, and new hires, with role-based access, AI-assisted template generation, and Slack/Gmail automation, replacing the previous manual Google Docs workflow

Intern, Quantitative Developer, Nipun Capital, California

June 2025 – Aug 2025

- Optimized database performance by refactoring SQL queries and implementing Redis caching, reducing dashboard load times by 20%
- Developed and deployed full-stack financial applications using Python, JavaScript, and Dash with real-time market data API integration
- Engineered automated data pipeline leveraging Selenium and Apache Airflow to reliably ingest daily records from Abu Dhabi Securities Exchange and Qatar Stock Exchange

Project Lead, LLM App Development, Michigan Data Science Team

May 2024 – Present

- Led a team of 45+ members and taught vector embeddings, retrieval augmented generation (RAG), function calling, and agents to advance team's development capabilities
- Coordinated weekly technical workshops and provided individual mentoring to help team members develop practical AI application skills
- Won the Best Presentation Award among 30 teams for innovative application and effective technical demonstration

Projects

CodeRift

June 2025 – July 2025

- Architected a Graph-RAG system over AST-derived call graphs to surface cross-function logic bugs invisible to line-level review, providing the LLM with repository-wide dependency context and impact analysis.
- Engineered a dual-agent Reviewer-Auditor pipeline using GPT-4o and FastAPI with structured critique-and-filter loops that reduced false-positive findings by 34% across logic bugs, redundant paths, and null guards.
- Cross-validated LLM findings against Pylint and Radon static analysis using structured prompt constraints, eliminating contradictory report entries for redundant paths and null guards.
- Developed a real-time GitHub PR Agent using webhooks and background tasks to automatically post inline AI-generated reviews, and shipped a TypeScript VS Code extension surfacing one-click Quick Fix suggestions for private refactoring.