

Adithya Harish

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PROFESSIONAL SUMMARY

A Software Engineer with 2+ years of experience shipping scalable full-stack applications and AI-driven systems. Specialized in React + Spring Boot backends, cloud infrastructure, and CI/CD.

WORK EXPERIENCE

Marriott International | Associate Software Engineer | Bethesda, Maryland Jun 2025 - Present

- Shipped a secure enterprise admin portal enabling 50+ internal teams to configure, review, and manage loyalty partners and hotel properties across Marriott's ecosystem; designed UX in Figma, built React frontend + Java WebFlux backend, modeled PostgreSQL schema, and integrated REST APIs.
- Established CI/CD pipelines in Harness and Docker that reduced deployment cycles by ~40% and enabled consistent delivery across dev/test environments for the admin portal and decision tool.
- Deployed an LLM-powered Business Decision Tool that enabled business users to generate, simulate, and validate executable rules across 10+ Marriott systems without touching code—powered by a natural-language-to-MVEL pipeline built on Spring Boot and React.
- Designed and maintained a high-throughput event-driven architecture using Kafka, Redis, and optimized SQL queries to synchronize real-time configuration updates across partner and property systems, ensuring sub-second query latency.

Fidelity Investments | Software Engineer | Bangalore, India Jan 2022 - Jun 2023

- Developed an enterprise product health dashboard using Angular, Python/Flask and DynamoDB that aggregated data from SonarQube, Bitbucket, ServiceNow, and CloudBees, automating reporting workflows and delivering application health insights up to 10x faster.
- Built a cloud cost-optimization dashboard by combining AWS EC2 capacity, Cloudability utilization and cost data, and ServiceNow ownership information to identify over-provisioned infrastructure and generate rightsizing recommendations, contributing to an approximately 15% reduction in infrastructure costs.
- Collaborated with the product team to enhance UI/UX for Fidelity's Investment Operations Portal, improving user workflows for tax-lot holdings, account onboarding, trade restrictions, and order tracking.
- Built and deployed Java/Karate regression test suites in Jenkins CI/CD pipelines, reducing manual testing effort by ~50%.

Deakin University | Research Intern | Australia Feb 2022 - Apr 2022

- Explainable AI: Worked on enhancing the transparency of machine learning models using SHAP and LIME frameworks, achieving a 92% model accuracy for RandomForestClassifier while focusing on straightforward emerging technologies.

EDUCATION

Virginia Tech Aug 2023 - Dec 2025
Master of Science, *Computer Science* GPA: 3.90/4.0

PSG College of Technology Aug 2018 - May 2022
Bachelor of Technology, *Information Technology* GPA: 9.53/10.0

SKILLS

Programming Languages: Python, Java, C++, SQL, TypeScript, JavaScript, C#, HTML/CSS

Frameworks & Libraries: Spring WebFlux, React, Angular, Kafka, Node.js, Flask, Django, Karate

Databases: PostgreSQL, MySQL, MongoDB, Redis, SQLite, NoSQL

DevOps & Cloud: AWS, Docker, Kubernetes, CI/CD, Jenkins, GitHub, Git, Jira

Software Engineering: REST APIs, System Design, Test Automation, Agile, Problem Solving, Cursor, Gen AI, Agentic AI, Linux, Prompt engineering

PROJECTS

SPARC: AI-Powered Tutor for Secure Programming (MS Thesis) | Jan 2024 - Nov 2025

- Built SPARC, an AI-powered tutor using LLMs, prompt engineering, plan-of-thought reasoning, and adaptive algorithms to guide secure coding exercises. This work positions generative AI as an educator's ally, helping students master secure programming without shortcuts.

Networking App for Marriott International (Hackathon) | Sep 2024 - Oct 2024

- Led a 36-hour app development project aimed at connecting Marriott guests with similar interests to foster a more social hotel experience. Utilized Firebase, Python Flask and Flutter and integrated machine learning models to match user preferences. Awarded Honorable Mention for innovative design and execution among 100+ teams.

CrediWise - Use the right card, everytime (Chrome Extension) | Oct 2025 - Oct 2025

- AI-powered Chrome extension & dashboard that auto-detects checkout pages, fetches real-time credit card offers, and recommends the best card instantly. Built using Python (Flask), React + Vite, Manifest V3, MCP Agents, and Supabase. Won at VT Hacks 13 Hackathon and at Startup Sprint 25 among 300+ participants.

DocuGen: AI-Powered GitHub Documentation Generator | Mar 2024 - May 2024

- A tool that generates adaptive documentation for GitHub repos, with setup guides and branch comparisons across multi-language codebases. Improves code comprehension and reduces manual effort using Python, Tree-sitter, and LLMs.