

Adithya Harish

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SUMMARY

Dynamic Software Engineer with 2+ years of experience in developing and deploying scalable, high-performance applications. Skilled in full-stack development with expertise in Java, Python, Angular, and DevOps tools.

EXPERIENCE

Fidelity Investments

Jan. 2022 - Jun. 2023

Software Engineer

Bangalore, India

- **Backend Development:** Crafted a centralized application using **Java Spring**, consolidating data from ALM tools (Sonar, Bitbucket, Snow, CloudBees) into a unified platform and reducing manual filtering time by 80%.
- **API Integration:** Designed and implemented **RESTful APIs** that optimized data flow processes, leading to a 50% enhancement in data retrieval efficiency by streamlining server-client interactions and reducing response times.
- **Application Resiliency:** Designed a cloud resiliency dashboard for **AWS EC2**, Snow, and Cloudability, automating compliance checks to enhance reliability by 30% and enable proactive issue resolution.
- **Frontend Enhancement:** Improved UI functionalities for the Investment Operations Portal using **Angular**, resulting in a 20% increase in user engagement.
- **Cloud Optimization:** Delivered cost-saving recommendations via actionable insights into instance sizing and CPU utilization, reducing operational costs by 15%.
- **Test Automation:** Developed Java tests using the **Karate** Framework and automated **CI/CD** pipelines with Jenkins and Kubernetes cutting deployment time by 50%.
- **End-to-End Development:** Developed a **Python-Angular** dashboard to streamline non-functional testing, reducing developer workload 10x and boosting productivity.

Deakin University

Feb. 2022 - Apr. 2022

Research Intern

Melbourne, Australia

- **Explainable AI (XAI):** Collaborated with Dr. Mohamed Abdelrazek 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 (Thesis); GPA: 3.92/4.0

Blacksburg, VA

PSG College of Technology

Aug. 2018 - May. 2022

Bachelor of Technology, Information Technology; GPA: 9.53/10.0

Coimbatore, India

PROJECTS

Networking App for Marriott International (Hackathon) | [GitHub](#)

- 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.

Comparative Security Analysis of ChatGPT and Stack Overflow | [GitHub](#)

- Conducted a focused study comparing security-related programming queries using PMD tools, identifying a 70% security violation rate in ChatGPT vs. 18% in Stack Overflow, highlighting AI's limitations in secure coding.

KILIG Events Official Website | [GitHub](#)

- Developed the official website for Kilig Events, an event management company based in Madurai, India, using React and implemented effective SEO strategies for enhanced visibility.

TECHNICAL SKILLS

Languages	: Python, Java, C++, SQL, Typescript, Javascript, C#, HTML/CSS
Frameworks/Technologies	: Django, Flask, Spring Boot, React, Angular, Node.js, Karate, AWS(EC2,S3)
Databases	: MySQL, SQLite, MongoDB, Tableau, NoSQL, PostgreSQL
DevOps	: Git, CI/CD, Jenkins, GitHub, Jira, Kubernetes, Docker, Visual Studio, Windows, Linux
Software Development	: Agile, Scrum, API Design, Test Automation, System Design, Problem-Solving

PUBLICATIONS

Covid-19: Comparison of Time series forecasting models and Hybrid ARIMA-ANN | [Link](#)

Improving Security with Federated Learning | [Link](#)

Summarization of Customer Reviews in Web Services using Natural Language Processing | [Link](#)