

KARTHIK RAGULA

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EXPERIENCE

Associate Software Engineer

June. 2025 – Present

WaveMaker India Private Ltd, Hyderabad

- Engineered core components of **AIRA**, WaveMaker's enterprise multi-agent AI platform, integrating Python-based agent orchestration with Java Spring Boot backend services to automate full-stack web and mobile application development.
- Developed **Java Spring Boot REST APIs**, MCP tools, and reusable backend services supporting database operations, code generation, API development, and seamless communication across AI agents.
- Built backend services including **Database tools**, **OpenAPI detection**, **ripgrep-based code search**, and targeted file editing services, enabling intelligent developer workflows.
- Designed the **Skills & Actions framework** for dynamic agent orchestration, enabling intent-specific capability loading, improving modularity, and reducing response latency.
- Optimized workflow execution by implementing a **checkpoint branching mechanism** and **hash-based optimistic concurrency control**, improving scalability while preventing overwrite conflicts during parallel execution.
- Developed a secure bidirectional **secret redaction pipeline** that masks sensitive credentials before LLM processing and automatically restores them before tool execution, strengthening end-to-end application security.
- Integrated **Langfuse observability** for distributed tracing, debugging, prompt monitoring, latency analysis, and execution analytics, improving production visibility and issue diagnosis.
- Collaborated with cross-functional teams in an **Agile Scrum** environment, contributing to feature development, code reviews, debugging, integration testing, and production issue resolution.

SKILLS

Programming	Java, Python, JavaScript, SQL
Backend	Spring Boot, Spring MVC, Hibernate, REST API Development, Microservices
Frontend	ReactJS, HTML5, CSS3
Databases	MySQL, PostgreSQL
Testing	JUnit, Postman, Swagger
Dev Tools	Git, GitHub, Docker, Maven, JIRA
AI	Agentic AI, Multi-Agent Orchestration, MCP, LLMs, Prompt Engineering, Langfuse
DSA	650+ LeetCode 450+ Coding Ninjas (Master Badge) 150+ GeeksforGeeks

EDUCATION

Bachelor of Technology in Computer Science and Engineering, Sree Vidyanikethan Engineering College (9.4/10.0) 2021 - 2025

ACHIEVEMENTS

- Solved **1,250+** **Data Structures & Algorithms** problems across LeetCode, Coding Ninjas, and GeeksforGeeks.
- Grew a **YouTube** channel to **10,000+** **subscribers** and **15M+** **views**, creating interview preparation, career guidance, and educational content.
- Served as **DATA Club Secretary** at SVEC, leading a **600+** **member** student community and organizing technical workshops, coding events, and career guidance sessions.
- Secured **2nd place** in **MOOCGATE** and **3rd place** in **Career Quest** among **1,200+** **participants** at ISTE technical competitions.