

AGRAH M V

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PROFESSIONAL SUMMARY

Java Backend Developer with ~3+ years of experience in building scalable microservices using Spring Boot and REST APIs. Strong experience in production support (L2/L3), debugging distributed systems, and improving system stability. Hands-on exposure to Python and AI-driven workflows including API integration, prompt engineering, and basic data processing. Passionate about building reliable systems and evolving into AI-driven development.

TECHNICAL SKILLS

Backend:	Java, Spring Boot, REST APIs, Microservices, gRPC, JPA, Authentication & Security, JUnit5
AI & Python:	Python (Basics), Pandas, API Integration, Prompt Engineering (LLMs), AI Agent Workflows (Learning)
Databases:	MySQL, PostgreSQL, MongoDB
Frontend:	Angular, React, TypeScript, JavaScript
Dev Tools:	Git, GitHub, GitLab, Azure DevOps, Swagger, Jira
Other:	CI/CD Basics, Debugging, Production Support (L2/L3), Monitoring (Portainer), Agile Practices

WORK EXPERIENCE

Software Engineer

2023 - Present

ThinkPalm Technologies, Kochi

- Developed and maintained scalable backend systems using Spring Boot, microservices, REST APIs, and gRPC, improving inter-service communication and data aggregation.
- Owned end-to-end feature development including design, implementation, unit testing, and deployment.
- Handled L2/L3 production support including incident triage, root-cause analysis, and bug fixing across distributed systems.
- Executed production SQL queries across multiple environments (shore systems and 24 ships) to debug and resolve data inconsistencies.
- Improved system stability by identifying recurring issues and implementing long-term fixes, reducing manual support effort.
- Built scheduled jobs and backend automation (health checks, notifications), improving operational efficiency.
- Monitored applications using Portainer logs and collaborated with DevOps to resolve production issues.
- Worked in Agile environment, actively participating in sprint planning, stand-ups, retrospectives, and code reviews.
- Collaborated with frontend, QA, and DevOps teams to deliver reliable and scalable features.

PROJECTS

Cargo Planning Decision Support System (Microservices)

- Developed backend services using Spring Boot and gRPC for cargo, vessel, and voyage management.
- Built orchestrator service aggregating data from multiple microservices.
- Handled production bug fixes, root-cause analysis, and system enhancements across distributed environments.
- Executed SQL queries on live systems to troubleshoot operational issues.
- Monitored logs and resolved production issues using Portainer.

Tech Stack: Java, Spring Boot, Microservices, gRPC, PostgreSQL, Angular, Azure DevOps

Crew Management Application

- Developed backend modules for crew operations including activity logs, medical events, and compliance tracking.
- Designed and implemented secure CRUD APIs with role-based access control.
- Built scheduled jobs and email automation to streamline workflows.
- Collaborated with frontend teams to integrate APIs effectively.

Tech Stack: Spring Boot, MySQL, React, GraphQL

Billing Application

- Developed backend APIs using Spring Boot and MongoDB for billing workflows and approvals.
- Built analytics APIs for dashboard insights (status tracking, approvals, reports).
- Implemented RBAC ensuring secure access for multiple users.

Tech Stack: Spring Boot, MongoDB, Angular

Sports Application

- Designed REST APIs for event management, team creation, and scoring logic.
- Implemented backend validations to ensure data consistency.

Tech Stack: Spring Boot, MySQL, React

AI / Python Project (Personal)

- Built a Python-based AI assistant using LLM APIs (Groq/OpenAI) for sentiment analysis and response evaluation.
- Implemented prompt engineering techniques and basic agentic workflows (multi-step reasoning and tool usage).
- Processed structured data using Pandas for analysis and validation.
- Integrated APIs and handled response validation for AI-driven outputs.

EDUCATION

Bachelor of Technology (Electronics and Communication Engineering)

2019 - 2023

APJ Abdul Kalam Technological University | CGPA: 8.86/10

CERTIFICATIONS

- **Full Stack Java Developer Certification** | Udemy
Built 5+ full-stack applications using Spring Boot, React, and REST APIs

KEY CONTRIBUTIONS

- Reduced recurring production issues by implementing backend fixes and improving monitoring visibility.
- Improved system reliability and data consistency across distributed microservices.
- Enhanced operational efficiency through backend automation and scheduled jobs.