Ramakrishna M

Java Software Engineer | Backend Engineer

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Professional Summary

Java Software Engineer with 5+ years of experience designing and developing scalable backend and enterprise applications using Java, Spring Boot, PostgreSQL, AWS, Docker, and Kubernetes. Experienced in microservices, distributed systems, REST API development, software architecture, database optimization, event-driven systems, system integration, ETL pipelines, data validation, application debugging, and production troubleshooting. Built configuration-driven data-processing and import capabilities for enterprise workflows and contributed to frontend development using Angular, Nx Workspace, and Micro-Frontend Architecture. Owned end-to-end development of inventory capabilities for a multi-tenant CTRM SaaS platform supporting real-time synchronization, complex business workflows, and high-availability production systems.

Technical Skills

Languages:	Java, JavaScript, SQL
Backend:	Spring Boot, Spring Security, JPA, REST APIs, Microservices, RabbitMQ, Node.js
Frontend:	Angular, Nx Workspace, Micro-Frontend Architecture
Architecture & System Design:	Distributed Systems, Multi-Tenant Architecture, High Availability, Event-Driven Systems, System Design
Data Processing:	ETL Pipelines, Data Transformation, Data Validation, Reference Data Lookups, JSON-Driven Configuration, Excel Data Import
Databases:	PostgreSQL, Query Optimization, Stored Procedures, Database Views, Database Design, DBMS, MongoDB
Cloud & DevOps:	AWS (EC2, RDS, ELB), Docker, Kubernetes
Testing, Observability & Engineering Tools:	JUnit, Unit Testing, Grafana, Debugging, Troubleshooting, Maven, Git, Bitbucket, Jira, Code Reviews

Work Experience

Taomish Private Limited | Bangalore, India **Nov 2022 – Present**

Software Engineer - 3 **Apr 2025 – Present**

- **Lead** backend engineering for Xceler, an enterprise multi-tenant SaaS platform supporting supply chain, commodity trading, and risk management workflows.
- **Designed** a configuration-driven Custom Import Framework using Node.js and bulk persistence, reducing 1,000-record Excel import time from 60+ seconds to approximately 22 seconds, cutting execution time by 63%+.
- **Architected and implemented** a configuration-driven ETL Framework adopted across 10+ data-processing workflows, reducing new workflow implementation effort by approximately 60% through reusable transformations, validations, lookups, aggregations, branching, and extensible business operations.
- **Guided** 2+ developers through sprint execution, task breakdown, and code reviews, improving implementation quality and reducing PR rework by approximately 25%.
- **Designed and implemented** a cross-framework **Micro-Frontend architecture** using Webpack Module Federation, integrating a React/Next.js dashboard remote into Angular through a runtime mount/unmount contract with independent data loading and lifecycle management.
- **Own** backend architecture across APIs, databases, integrations, and scalability, while refactoring complex services to improve code quality, maintainability, and codebase structure.
- **Perform Technical Evaluations (TE)** for sprint stories, defining impact, dependencies, API/DB changes, implementation approach, and effort estimates upfront to reduce developer ambiguity and execution overhead.
- **Monitor** service logs, health checks, and runtime behavior across environments using Grafana for faster troubleshooting and production issue analysis.
- **Collaborate** with product and cross-functional engineering teams to analyze requirements, prioritize development work, and deliver production-critical features.

Software Engineer - 2 **Apr 2024 – Apr 2025**

- **Designed and owned** the Inventory Microservice from the ground up using Java and Spring Boot, developing REST APIs for inbound, outbound, transfer, transit, write-on, and write-off workflows.

- **Contributed** to frontend development using Angular and Nx Workspace, supporting Micro-Frontend Architecture and integration with Spring Boot backend services.
- **Architected** scalable backend services within a distributed, multi-tenant microservices ecosystem using Java, Spring Boot, PostgreSQL, Docker, and Kubernetes.
- **Optimized** complex PostgreSQL queries and data retrieval patterns, improving API response times by up to **40%**.
- **Improved** database efficiency using reusable views and tenant-aware stored procedures, reducing redundant queries and unnecessary inter-service API calls.
- **Implemented** asynchronous processing using RabbitMQ, decoupling high-volume workloads from synchronous requests and improving throughput under peak load.
- **Enabled** real-time inventory synchronization across distributed microservices while maintaining data consistency across business workflows.
- **Delivered** transit tracking, write-on, and write-off capabilities, improving inventory traceability across operational workflows.
- **Designed** the Low-Level Design (LLD) and delivered the What-If Analysis MVP, defining component interactions, data flow, and backend integration for scenario-based pricing and market decision support under tight delivery timelines.
- Resolved production-critical application, database, and integration issues across high-availability AWS environments using RDS and ELB, restoring stability and preventing data inconsistencies.

Software Engineer - 1 **Nov 2022 – Apr 2024**

- **Developed** Java backend functionality for an enterprise Inventory Management System supporting procurement, transfers, obligation tracking, and inventory lifecycle workflows.
- Implemented business-critical logic for pricing, quantity management, inventory tracking, and traceability across multiple operational workflows.
- **Designed and developed** the GRN Actualization Module, supporting packaging, rejection tracking, and workflow-driven goods receipt processing.
- Integrated backend services with PostgreSQL and implemented transactional database operations to ensure data consistency across critical inventory workflows.
- **Tested and debugged** backend features deployed in production, troubleshooting application issues and supporting reliable enterprise operations.

Megron Tech Private Limited | Bangalore, India **Aug 2021 – Oct 2022**

Jr Software Engineer

- Developed JavaScript and **Node.js** backend services for a web performance monitoring platform.
- Built data-processing pipelines to collect, process, and store large volumes of website performance metrics for downstream analysis.
- Developed application dashboards for visualization and reporting of website performance insights for customers.
- Implemented scheduling, notification, and customer data management functionality as part of the software product development lifecycle.

Education

Bachelor of Engineering in Electronics and Communication **2020**
APS Institute of Technology, Bangalore