

JANARTHANAN NARAYANASAMY

Senior Java Backend Developer

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PROFESSIONAL SUMMARY

Senior Java Backend Developer with 4+ years of experience designing, developing, and deploying scalable, secure, and high-performance enterprise applications using Java 8/17/21, Spring Boot, PostgreSQL, and AWS. Expertise in microservices architecture, distributed systems, RESTful API development, event-driven architectures using Apache Kafka, real-time communication with WebSocket, and cloud-native application development. Strong experience in system design, database optimization, application security, CI/CD automation, and performance tuning for enterprise-scale SaaS platforms. Proven track record of improving system reliability, reducing production incidents, optimizing application performance, and delivering mission-critical solutions in Agile environments. Experienced in leading technical initiatives, mentoring developers, and driving engineering best practices across teams.

TECHNICAL SKILLS

Programming Languages: Java (Java 8, Java 17, Java 21), SQL, JavaScript

Backend Frameworks: Spring Boot, Spring MVC, Spring Security, Spring Data JPA, Hibernate, JDBC

API Development: REST API Design, Swagger / OpenAPI, Postman, API Versioning, API Gateway

Security: OAuth2, OpenID Connect, JWT Authentication, Keycloak, Role-Based Access Control (RBAC)

Databases: PostgreSQL, MySQL, Schema Design, Query Optimization, Indexing

Messaging & Events: Apache Kafka, WebSocket (Real-time), SendGrid, Asynchronous Processing

Cloud & DevOps: AWS (EC2, RDS, S3, ECS, ECR, Lambda, SES, Cloud Front), Docker, GitHub Actions, CI/CD Pipelines

Architecture: Microservices, Monolithic, Modular Monolith, Event-Driven Architecture, AOP, OOP, Design Patterns (SOLID)

Testing & QA: JUnit, Mockito, Integration Testing, API Testing, Unit Testing

Monitoring & Tools: New Relic, Mixpanel, SLF4J (Structured Logging), Git, GitHub, GitLab, IntelliJ IDEA

PROFESSIONAL EXPERIENCE

Senior Java Developer

Astravue Technologies Pvt Ltd, Chennai | **April 2022 – Present**

Backend Development & Architecture:

- Designed and developed scalable backend services using Java 17 and Spring Boot, supporting multi-tenant enterprise SaaS applications serving thousands of concurrent users.
- Built and maintained 30+ REST APIs following OpenAPI standards with Swagger documentation, JWT-based authentication, and RBAC using Keycloak for secure access control.
- Optimized PostgreSQL query performance through advanced indexing, query rewriting, and schema redesign - achieving ~40% improvement in database response time under high load.
- Implemented WebSocket-based real-time communication for live dashboards, instant notifications, and collaborative features with sub-second latency.
- Architected event-driven microservices using Apache Kafka for asynchronous processing, decoupling services and improving overall system throughput and fault tolerance.
- Applied in-memory caching and async processing patterns, significantly improving API response times and reducing server resource consumption during peak load.

Performance, Reliability & DevOps:

- Diagnosed and resolved critical memory leaks, thread contention issues, and performance bottlenecks - reducing production downtime incidents by ~70%.
- Built end-to-end CI/CD pipelines using Docker and GitHub Actions, automating build, test, and deployment workflows and reducing release cycle time by ~50%.
- Deployed and managed services on AWS (EC2, ECS, RDS, S3, SES, Cloud Front, Cloud Watch, Lambda) with auto-scaling and high-availability configurations ensuring 99.9% uptime SLA.
- Implemented structured logging with SLF4J and integrated New Relic for real-time performance monitoring, alerting, and incident response.
- Developed comprehensive unit and integration test suites using JUnit and Mockito, maintaining 85%+ code coverage across critical service modules.

Team Leadership & Collaboration:

- Led code reviews and enforced coding standards, improving overall code quality and reducing post-release bug rate by ~40%.
- Mentored 3 junior developers in Spring Boot best practices, REST API design, and testing strategies, accelerating their onboarding and productivity.
- Collaborated closely with frontend engineers and product managers to define API contracts, prioritize features, and deliver seamless end-to-end integrations on schedule.

KEY ACHIEVEMENTS

- Improved PostgreSQL database performance by 40% through advanced indexing, query optimization, and schema redesign.
- Reduced production downtime by 70% by identifying and resolving memory leaks, thread contention issues, and application bottlenecks.
- Built and deployed 30+ secure REST APIs supporting enterprise SaaS platforms serving thousands of concurrent users.
- Reduced release cycle time by 50% through implementation of automated CI/CD pipelines using Docker and GitHub Actions.
- Architected event-driven microservices using Apache Kafka, improving system scalability, fault tolerance, and processing efficiency.
- Maintained 99.9% application uptime through proactive monitoring, alerting, and cloud infrastructure optimization on AWS.
- Mentored junior developers and established engineering best practices that improved code quality and reduced post-release defects.

EDUCATION

Bachelor of Science (B.Sc)

Jairam Arts and Science College, Salem | April 2016 – May 2018