

Ramesh Ashok

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Summary

Accomplished Spring Boot Developer with 4+ years of expertise architecting scalable, high-performance microservices for enterprise airline and B2C platforms. Demonstrated excellence in Java/Spring Boot ecosystem with proven track record of delivering measurable performance improvements and exceptional system reliability.

Experience

Java Backend Developer

Tata Consultancy Services

Chennai, India

Jan 2025 – present

- Architected enterprise-grade Spring Boot microservices with GraphQL integration for Jazeera Airways B2C airline booking platform
- Achieved 35% reduction in application startup time and 50% memory optimization through Spring Boot configuration tuning
- Improved API response times by 25% implementing Spring Cache with Redis and optimized database connection pooling
- Eliminated N+1 query bottlenecks using Spring Data JPA optimization techniques, reducing database calls by 60%
- Enhanced system resilience with Spring Boot Actuator health checks and circuit breaker patterns using Resilience4j
- Implemented comprehensive monitoring with Spring Boot Actuator metrics and Micrometer for production observability
- Delivered mission-critical Spring Boot REST APIs supporting high-traffic search, pricing, and booking workflows

Java Backend Developer

Tata Consultancy Services

Chennai, India

Jan 2022 – Dec 2024

- Engineered microservices-based backend systems for the NDC (New Distribution Capabilities) platform for British Airways (IAG) using Spring Boot and PostgreSQL
- Leveraged AWS services (EC2, S3) for deployment, achieving 99.9% system uptime and 25% faster performance
- Enhanced database performance by optimizing queries and designing efficient schemas in PostgreSQL, reducing data latency by 15%
- Integrated RESTful APIs with third-party platforms like Amadeus GDS for seamless service functionality
- Implemented unit and integration testing, ensuring code reliability and maintainability

Backend Developer

Bloomlync Technology

Chennai, India

Aug 2021 – Jan 2022

- Modernized legacy systems with Spring Boot and AWS Lambda, reducing system errors by 20%
- Designed high-performance RESTful APIs with PostgreSQL integration for superior data retrieval
- Maintained 100% delivery timeline adherence across all client projects with exceptional quality standards

Software Engineering Intern

Oracle Cerner

Bengaluru, India

Oct 2020 – June 2021

- Developed comprehensive full-stack Blog Module for RCCREDIT.com using Spring Boot, React, and MongoDB
- Optimized database operations and API integrations for enhanced system reliability and performance
- Delivered detailed technical documentation following industry-standard Agile development practices

IoT Intern

Amtex Systems

Chennai, India
May 2017 – July 2017

- Worked on IoT automation project for American School, Chennai, improving communication efficiency by 30%
- Used JavaScript and integrated data visualizations for real-time announcement systems

Education

SRM Institute of Science And Technology

M.Tech in Artificial Intelligence and Data Science

Chennai, India
2026 – present

- Currently pursuing advanced studies in AI and Data Science
- Specializing in machine learning algorithms and data analytics
- Research focus on deep learning and neural networks

SRM Institute of Science And Technology

MCA in Computer Applications

Chennai, India
2018 – June 2021

- Completed intensive Machine Learning Bootcamp at NIT Trichy
- Gained hands-on expertise with TensorFlow and Keras frameworks
- Developed data analysis and visualization skills
- Strong foundation in software engineering principles

Projects

Jazeera Airways B2C Platform

2025

- Built ultra-high-performance Spring Boot microservices with GraphQL integration for B2C airline booking platform
- Tech Stack: Java, Spring Boot, GraphQL, PostgreSQL, Redis, AWS

British Airways NDC Platform

2024

- Engineered enterprise-scale microservices architecture for massive airline booking data processing
- Tech Stack: Java, Spring Boot, PostgreSQL, AWS, Microservices Architecture

TechUtsav Registration System

2021

- Developed scalable registration platform for SRM College Tech Symposium with custom domain deployment
- Tech Stack: Angular, Firebase Cloudstore, JavaScript, GoDaddy

Technologies

Programming Languages: Java, SQL

Spring Framework: Spring Boot, Spring MVC, Spring Data JPA, Spring Security, Spring Cache

APIs & Integration: REST APIs, Spring REST, Microservices Architecture, GraphQL with Spring Boot

Databases: PostgreSQL, MongoDB, Oracle DB, Spring Data JPA, Hibernate

Cloud & DevOps: AWS (EC2, S3, Lambda), Docker, Jenkins, GitHub Actions, Spring Boot Actuator

Tools & Practices: Git, Agile, TDD, CI/CD, Maven, Gradle, Spring Boot Testing

Certifications

Spring Boot Certification – Udemy

AWS Solutions Architect Associate (In Progress)

PostgreSQL Database Fundamentals – Coursera

Advanced Java Programming – NIIT

Python Development – NIIT