

# Ramesh Ashok

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## Summary

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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

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### Java Backend Developer

Chennai, India

Tata Consultancy Services

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

Chennai, India

Tata Consultancy Services

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

Chennai, India

Bloomlync Technology

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

Bengaluru, India

Oracle Cerner

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

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### 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

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### 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

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**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

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Spring Boot Certification – Udemy

AWS Solutions Architect Associate (In Progress)

PostgreSQL Database Fundamentals – Coursera

Advanced Java Programming – NIIT

Python Development – NIIT