

Siva Rakesh Reddy

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SUMMARY

Highly accomplished Java Full Stack Developer with over 8 years of experience architecting and building scalable, high-performance web and cloud applications. Proven expertise in Java, Spring Boot, React, Microservices, Docker, Kubernetes, and Kafka. Adept at designing and implementing AWS Serverless solutions utilizing Lambda, API Gateway, DynamoDB, and Node.js/TypeScript, consistently reducing infrastructure costs by up to 40% and achieving 99.9% uptime across distributed systems.

EXPERIENCE

Technical Lead/Senior Developer

LTiMindtree

February 2022 - January 2026, Hyderabad

- Designed and implemented a cloud-native serverless application using AWS Lambda, TypeScript, and AWS CDK, integrating multiple REST APIs to deliver real-time trip information and personalized travel experiences for mobile customers.
- Currently handling 5M API requests in peak time, demonstrating robust performance under high load.
- Integrated 10+ REST APIs (e.g., getPnr, Passenger Info, Upsell, SSR) with robust authentication, implementing critical retry logic and circuit breaker patterns for enhanced reliability.
- Engineered an AWS Lambda-based microservices architecture using AWS CDK (Infrastructure as Code) with TypeScript, achieving a 40% reduction in infrastructure costs and maintaining 99.9% uptime.
- Optimized Lambda performance, reducing average response time from 3.2s to 800ms through strategic elimination of unnecessary API calls, parallel API execution, and efficient data transformation.
- Established a comprehensive testing framework with Jest, achieving over 85% code coverage, and integrated SonarQube for continuous code quality monitoring and improvement.
- Integrated Dynatrace APM and Sumo Logic for advanced tracing and logging, reducing MTTR by 50% within one quarter and significantly improving incident resolution and system reliability in 2023.
- Led the end-to-end migration of critical API endpoints to Node.js Lambda functions, successfully achieving a 2x increase in peak request volume (5M API requests/hour).
- Enhanced performance by reducing system latency by 25%, validated through Dynatrace APM and Sumo Logic telemetry.
- Architected, deployed and optimized 20+ AWS Lambda-based microservices using Node.js and AWS CDK, supporting 5M+ API requests/hour with 99.9% uptime and sub 800ms response times, validated via Dynatrace and Sumo Logic. Implemented state management using React hooks and context, ensuring maintainable and scalable front-end logic.

Team Member

Cognizant

May 2021 - February 2022, Hyderabad

- Led the requirements gathering and analysis for a project, resulting in a streamlined design process that improved development efficiency within 3 months.
- Implemented unit and integration testing frameworks, achieving 85% code coverage and significantly reducing defects during User Acceptance Testing (UAT).
- Provided support during the UAT phase for defect fixing, ensuring timely resolution and product stability.
- Utilized GitHub for code integration, maintenance, and security.
- Deployed WAR files using Maven and Tomcat Server. Integrated RESTful APIs with React front-end, enabling dynamic data rendering and seamless communication with backend services.

Team Member

Capgemini Technology Services India Limited

April 2018 - April 2021, Bangalore

- Involved in gathering requirements, analysis, design, and development of the project, ensuring alignment with business objectives.
- Developed Component classes utilizing MVC patterns for efficient application structure.
- Developed Spring Boot REST APIs and ORM entities that improved data access performance by 30%.

- Automated recurring workflows using Spring Batch and Shell scripts, reducing manual effort by 40% and enhancing operational efficiency.
- Executed performance optimization for critical modules over a 6-month project by profiling and tuning JVM parameters, leveraging Spring Boot Actuator and New Relic, achieving 25% reduction in API latency and improving server throughput to exceed SLA benchmarks.

PROJECT

Mobile My Trips AWS Application

LTI Mindtree – Client Delta Airlines

February 2022 - January 2026

- Architected and deployed a highly scalable AWS Lambda-based microservices solution using AWS CDK (TypeScript), supporting multi-region deployments and serving millions of mobile users.
- Integrated 10+ REST and GraphQL APIs with parallel processing, reducing average API response time by 60% and ensuring graceful degradation for non-critical service failures.
- Implemented robust security measures including token management, AWS Secrets Manager, and PII data encryption, ensuring compliance with airline industry standards.
- Developed automated PNR refresh and change detection mechanisms that minimized unnecessary API calls and reduced backend load by 40%.
- Built a CI/CD pipeline with GitLab, Amazon Q code review, and automated multi-environment deployments, enabling multiple production releases per day.
- Achieved 99.9% uptime and high fault tolerance through multi-region, multi-AZ VPC configuration, incorporating retry logic and timeout management for critical APIs.
- Developed complex data transformation logic to unify and normalize multi-API responses into mobile-friendly formats with time zone-aware handling.
- Enhanced observability by integrating Dynatrace APM, Sumologic, and CloudWatch Logs with structured logging and transaction ID tracking.
- Maintained comprehensive unit test coverage with Jest, automated reporting, and static code analysis via SonarQube, ensuring high code quality and reliability.
- Reduced infrastructure costs compared to traditional EC2-based solutions through serverless architecture and FinOps cost optimization practices.

EDUCATION

BTech

SRKR Engineering College, Andhra University • Andhra Pradesh • January 2013 - January 2017

12th (MPC)

Sasi Junior College (Velivennu) • January 2011 - January 2013

10th (SSC)

Vikas Public School • January 2010 - January 2011

SKILLS

Programming: Java, Node.js, TypeScript, JavaScript, Python

Frameworks: Spring Boot, Spring Cloud, Spring Data, Hibernate, GraphQL, React, Axios, Moment.js, iconv-lite, Zlib

Cloud & DevOps: AWS (Lambda, API Gateway, DynamoDB, CloudWatch, Secrets Manager, VPC), Kubernetes

Databases: DynamoDB, Oracle

Tech Stack: Docker, Kafka, Git, GitHub, GitLab, Maven, Tomcat, WebLogic, Jest, SonarQube, Dynatrace APM, Sumologic, AWS CDK