RAHUL KUMAR

Senior Software Engineer (SDE3)

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SUMMARY

Senior Backend Engineer with 8+ years of experience architecting, deploying, and maintaining scalable, high-performance distributed systems. Expert in Java 8+, Golang, and Spring Boot, with a strong focus on microservices and AWS serverless architectures. Proven track record of leading end-to-end cloud migrations, optimizing deployment pipelines, and designing resilient, fault-tolerant infrastructure. Adept at complex system design, advanced data structures, and leveraging modern containerization (Docker, Kubernetes, Helm) to drive enterprise-level cloud computing solutions.

PROFESSIONAL EXPERIENCE

Senior Software Engineer (SDE3)

06/2022 Present

JPMorgan Chase & Co. Bangalore, India

- Engineered core components across a suite of CI/CD optimization tools—Lattice (DAG-based runner), Jetbuild (dependency caching), and Buildi (image builder) slashing build and deployment times by 50%.
- Provisioned scalable cloud infrastructure for remote container builds utilizing Terraform (IaC), AWS ECS Fargate, and Kaniko.
- Architected a fault-tolerant Java/Spring Boot MCP server starter template deployed across worker pools, integrating Redis Sentinel for highly available token caching.
- Fortified backend infrastructure reliability by implementing distributed rate limiting, circuit breakers, and a global kill switch to prevent cascading system failures.
- Developed a diagnostic MCP server that automatically analyzes CI/CD pipeline failures, identifies root causes, and generates actionable remediation strategies to accelerate developer workflows.
- Resolved complex pipeline bottlenecks and spearheaded the adoption of modern CI/CD methodologies, ensuring continuous system availability and high-performance deployments.

Member of Technical Staff

03/2021 06/2022

Oracle Bangalore, India

- Led requirements analysis and architectural design for core features, developing Proofs of Concept (POCs) and comprehensive technical design documents to drive end-to-end client delivery.
- Architected and deployed highly scalable backend applications utilizing Spring Boot microservices, Docker, Kubernetes, and Helm.
- Engineered an automated data collection pipeline to seamlessly aggregate server pod metrics and application logs, integrating with Prometheus and Grafana for real-time system observability.
- Designed and implemented advanced pod protection mechanisms to prevent system degradation and ensure high availability during aggressive, high-traffic horizontal scaling events.

Software Developer

02/2018 02/2021

Mindtree Bangalore, India

- Directed end-to-end technical ownership of mission-critical financial modules, including Payment, Banking, Revenue, and BOD/EOD systems.
- Architected and deployed highly scalable RESTful microservices utilizing Java and Spring Boot, significantly improving overall system efficiency and backend performance.
- Spearheaded a large-scale cloud migration of 50 TB of data from on-premises servers across 15 enterprise brands, integrating seamlessly with Adobe AEM.
- Drove architectural decision-making and technology selection processes while championing Agile methodologies to streamline development workflows and accelerate delivery timelines.

EDUCATION

Bachelor of Technology
Electronics & Telecommunication
Shri Shankaracharya Technical Campus 08/2013 07/2017
Bhilai, Chhattisgarh

AWARDS & ACHIEVEMENTS

- **Performance Excellence Bonus (Oracle):** Awarded a 25K performance bonus for the successful, strictly on-time delivery of critical engineering deliverables and backend implementations.
- **Engineering Impact Recognitions (JPMC):** Earned multiple cross-functional and departmental awards for spearheading major CI/CD pipeline optimizations that significantly improved deployment workflows.
- **Leadership & Delivery Award (Mindtree):** Honored with a top leadership award for successfully directing the complex cloud migration of 20 enterprise brands.
- **Certificate of Appreciation (2020–2021):** Achieved a perfect 7/7 score on the Project Feedback Survey (PFS), recognized by clients and leadership for outstanding technical delivery and customer satisfaction.
- **Outstanding Performer Award (2018–2019):** Recognized by leadership for exceptional backend development performance, high accountability, and consistent delivery of quality software solutions.

SKILLS

Programming Language
Java 21+, Golang, Python (Basics)

Backend Framework
Spring Boot, Spring MVC, Microservices, Reactive Java

AI and GenAI
GenAI, MCP, Claude, Github Copilot, AWS Bedrock

Cloud & Devops
AWS, Terraform, Docker, Kubernetes, Helm 3, Jenkins

Databases
SQL, MongoDB

Architecture and Systems
Distributed Systems, CI/CD, Rate Limiting, Circuit Breakers, Caching, High Availability, Scalability

STRENGTHS

- **Time Management:** Prioritizes critical tasks, manages deadlines effectively, and ensures timely delivery of milestones without last-minute delays.
- **Adaptability:** Quick learner with the ability to rapidly pick up new technologies, programming languages, and tools.
- **Accountability:** Takes full ownership of outcomes, learns from mistakes, and applies lessons to prevent repeated errors and improve performance.