Sharad Rana

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Summary

Senior Backend Engineer with 8+ years of experience in designing scalable microservices and driving complex service migrations in fintech and payment systems. Proficient in Java (Spring Boot), Kafka, AWS, PostgreSQL, and Docker, with strong expertise in performance tuning, cloud modernization, and real-time data processing. Adept at leading engineering initiatives in Agile environments and delivering secure, high-availability systems.

Skills

Frontend Development: ReactJS | React Native | HTML | JavaScript
Backend Development: Java| Spring Boot | Microservices Architecture | RESTful APIs | Kafka | MySQL
Programming Languages & Other Skills: Python | C++ | C# | SQL | Postgres | Shell Script | JSON | XML | YAML | AWS | DBMS | Cloud Security | System Design | DSA | Operating Systems
Tools: Docker | GitLab CI/CD | Jenkins | Splunk | CloudWatch | Junit | Mockito | TestNG | SonarQube | Git | Postman | IntelliJ IDEA | JIRA | Rally | Confluence | SOAP | Agile | CI/CD | Swagger | StarGaze

Work Experience

National Australia Bank (NAB), Senior Backend Engineer ***Dec 2022 - Present***

- Designed and developed PayTo, PayID (similar to UPI), and a Payment System of Record, handling 10M+ daily transactions and 8+ years of historical data—contributed to both high-level and low-level system design, boosting fraud detection by 25% and ensuring Open Banking compliance
- Migrated legacy transaction data services from GPP to NPP, enabling real-time payments for over 10 million daily transactions, improving settlement speed by 40%, and ensuring regulatory compliance across NAB's core banking system
- Upgraded microservices from Java 11 to Java 17 and PostgreSQL v11 to v21 on AWS, reducing technical debt and improving system reliability.

XCEEDANCE, Software Developer ***May 2021 - Dec 2022***

- Built a scalable claim intake microservice to handle high-volume JSON/XML payloads, deployed via Docker containers—improving processing efficiency by **30%** and reducing latency in downstream systems
- Integrated with real-time underwriting systems, reducing claim validation time by 60%.
- Implemented OAuth-based authentication for secure access, leading to a 40% reduction in unauthorized access attempts.
- Optimized SQL queries and database schemas, increasing data retrieval speed by 25%.

WIPRO LIMITED, SOFTWARE ENGINEER ***Sep 2016 - May 2021***

- Developed backend services using Java and Spring, improving system performance by 20%.
- Integrated legacy SOAP APIs, expanding system functionality by 15%.
- Enabled centralized monitoring via ELK stack, reducing downtime by 25%.
- Drove code quality improvements by implementing mandatory code review process, reducing critical bug defects by 60% and improving overall system stability across key features.

Education

- MTech in Software Systems
  Birla Institute of Technology and Science (BITS), WILP — Jan 2020
- Bachelor of Computer Applications (BCA)
  Guru Gobind Singh Indraprastha University, Delhi — Jul 2016

Projects

Microservices-based Word Search Engine Built a real-time dictionary service using Spring Boot and REST APIs with Trie and edit-distance based auto-suggestions.