Prabhjeet Singh

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SUMMARY

Senior Java Backend Engineer with extensive experience in Java, Spring Boot, Microservices, RESTful API design, and distributed systems. Skilled in building secure, cloud-native applications using Kubernetes, Docker, AWS, Redis, and Kafka. Experienced in testing automation, performance optimization, and scalable system design across event-driven architectures.

EXPERIENCE

CYBAGE SOFTWARE | System Analyst
Oct 2022 – Present | Pune, India

- Led backend initiatives for multiple enterprise applications, driving end-to-end system design improvements, API security hardening, and reducing critical vulnerabilities to zero.
- Designed and implemented microservices using Quarkus, Redis, and Kafka for event-driven caching and real-time synchronization.
- Improved cache performance by reducing active connections from 100,000 to 250, increasing throughput and lowering latency.
- Developed REST APIs with JSON validation and Swagger documentation for internal and client use.
- Built Kafka consumer services for asynchronous message processing and cache consistency.
- Enhanced reliability through Quarkus schedulers and periodic monitoring of distributed data changes.
- Collaborated with DevOps teams to deploy and monitor services in containerized Kubernetes clusters using Jenkins build pipelines and CI/CD integrations.

HCL TECHNOLOGIES | Technical Lead
Dec 2018 – Jul 2022 | Lucknow, India

- Refactored and modernized the EVO Security Service in Spring Boot, implementing a new Authority Model and consolidating OAuth providers, enhancing scalability and maintainability.
- Migrated legacy scripts and database schemas to modern MySQL-based models, enabling multi-provider OAuth integrations for client APIs.
- Delivered backend solutions following microservice and REST API design principles, ensuring maintainable and modular architecture.
- Implemented extensive unit and integration testing (JUnit, Mockito) achieving 80% code coverage for developed modules.
- Optimized high-traffic endpoints, reducing computational overhead and improving performance by 20%
- Contributed to architectural reviews and system design discussions across distributed microservice ecosystems.

DATABOROUGH INDIA PRIVATE LTD | Software Engineer
Feb 2016 – Dec 2018 | Lucknow, India

- Developed and optimized Jasper Reports for modernization projects, reducing generation time from 15 minutes to milliseconds through SQL tuning.
- Developed RESTful APIs using Spring REST, Hibernate and MySQL to serve Angular dashboards.
- Improved code quality and maintainability with SonarQube and eliminated critical issues.
- Built a generic Excel ingestion engine using Apache POI and Reflection for automated data uploads.

GEOMETRIC LTD | Software Engineer
Jul 2015 – Dec 2015 | Pune, India

ACCENTURE | Associate Software Engineer
Aug 2013 – Jul 2015 | Mumbai, India

- Automated SCV record processing with JDBC, reducing production issues by 67%.
- Created JavaMail-based reporting framework integrated with Oracle for status notifications.

PROJECTS

SCHOOLMONITOR | Spring Boot, Angular, Redis, AWS, Elasticsearch
Apr 2019 – Aug 2021

- Developed a multi-tenant SaaS web platform with Angular Universal (SSR + i18n) frontend and Spring Boot backend using Spring Security (JWT) and Spring Data JPA.
- Architected the application with a one-database-per-tenant design for secure data isolation and scalability.
- Integrated Elasticsearch for indexed video search and Web Speech API for voice-based search functionality.
- Implemented Redis caching to improve application responsiveness and reduce database load.
- Created AWS Lambda functions for generating and storing thumbnails on S3 uploads.
- Implemented Excel-based data ingestion using Apache POI and secured password reset flow using OTP verification, Spring Mail, and Google reCAPTCHA.
- Backend Repository | Frontend Repository | Video Demonstration

EDUCATION

SRM UNIVERSITY | Bachelor of Technology in Computer Science
Aug 2013

SKILLS

- Languages: Java, SQL
- Frameworks: Spring Boot, Spring REST, Spring Security, Spring Data JPA, Hibernate, Quarkus, JUnit, Mockito, Angular (basic)
- Cloud & DevOps: Kubernetes (professional), AWS (Lambda, S3 – working knowledge), Jenkins (hands-on for CI/CD pipelines)
- Messaging & Databases: Redis, Apache Kafka, Oracle, MySQL, Elasticsearch
- Testing: JUnit, Mockito, SonarQube, Grafana K6(basic)
- Build & Tools: Git, Maven, Gradle, SonarQube
- Core Strengths: Microservices Architecture, REST API Development, Distributed Systems, System Design, Scalability, Performance Optimization, Security Best Practices