

HIMANSHU SINGH

JAVA BACKEND DEVELOPER

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 Portfolio

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 Bengaluru, India

Backend Developer with 3.1 years of experience building scalable web applications using Java, Spring Boot, Microservices, and Kafka. Proficient in designing and implementing RESTful APIs, optimizing database performance, and integrating third-party services. Experienced in deploying applications on AWS and delivering secure, high-performance backend solutions using Agile methodologies and cloud-native architectures.

Education



2021

B. Tech. (Computer Science & Engineering)

Punjabi University, Patiala

Technical Skills

- Core Java | Java 1.8 | OOPs Concepts
- Spring Boot | Spring MVC | Spring Security | Spring Cloud | Spring AI | LLMs
- Hibernate/JPA | MySQL | Spring Data JPA | JDBC
- Design Patterns | RESTful Services | Microservices
- AWS (S3, EC2) | Docker
- JUnit | Mockito | Swagger
- Kafka | RabbitMQ

Tools

- Eclipse | IntelliJ IDEA | Spring Tool Suite (STS) | MySQL Workbench
- Postman | JIRA | Git & GitHub
- GitHub Copilot

Work Experience

Terralogic Software Solutions | Java/J2EE Developer | October 2022 – Present

Technical Contribution:

- Built RESTful microservices using Spring Boot, Spring Cloud, and Eureka for scalable and modular applications.
- Refactored monolithic applications into microservices, reducing deployment downtime and improving modularity.
- Implemented JWT-based authentication and Spring Security with RBAC, ensuring secure access control.
- Implemented API rate-limiting mechanisms to prevent abuse and ensure consistent service availability, improving system resilience during high-traffic periods.
- Applied Resilience4j (retry, circuit breaker, bulkhead) for fault-tolerant microservices.
- Developed microservices capable of handling both synchronous (REST) and asynchronous (Kafka) communications, ensuring scalability and resilience.
- Designed efficient database schemas using ER diagrams and optimized queries with Hibernate/JPA, reducing latency by 20%.
- Integrated third-party APIs (SMS, WhatsApp, Email) for automated notifications.
- Achieved 85%+ code coverage with JUnit and Mockito tests, ensuring reliability.
- Documented APIs using Swagger for ease of integration.
- Utilized GitHub Copilot to accelerate development, write efficient code, and reduce manual coding effort.

Project: Travel & Hospitality Domain

Project Overview: A scalable and high-performance **online hotel booking platform** enabling users to search, compare, book, and review hotels seamlessly. Integrates external APIs for real-time availability and pricing, supports secure authentication, robust property management, and automated notifications. Designed to handle high concurrency, ensuring reliability and a smooth, user-friendly experience for both customers and administrators.

Key Responsibilities and Achievements:

- Developed secure Sign-In and Sign-Up modules using Spring Security and JWT-based authentication, reducing unauthorized access incidents.
- Built an advanced hotel search feature enabling users to filter hotels by city and country, improving search accuracy and user satisfaction.
- Designed and implemented the core hotel booking system, allowing seamless room bookings with real-time availability checks and concurrency management.

Core Competencies

Java & J2EE Development

Spring Boot &Microservices

RESTful API Design & Integration

Database Management

Cloud Services

Software Design & Architecture

Security & Authentication

Testing & Quality Assurance

Version Control

Frontend Frameworks

Agile Methodologies & Collaboration

API Documentation & Tools

- Created a review module for one-time user reviews with edit options, fostering platform engagement and gathering valuable feedback.
- Developed a blog system for users to write posts and add comments, increasing user interaction and retention metrics.
- Designed database schema based on ER diagrams, structuring layers into repository, service, and controller for modularity and maintainability.
- Integrated AWS S3 for efficient storage and management of property images, ensuring fast loading times and scalability.
- Implemented multi-channel notifications (email, SMS, WhatsApp) for booking confirmations and updates, enhancing communication efficiency.
- Generated and delivered PDF booking confirmations via WhatsApp and email, automating post-booking processes and improving customer experience.
- Leveraged Git and GitHub for version control, creating and managing branches to support parallel development and quick merges.

Technologies Used: Java | Spring Boot | Spring Cloud | Hibernate/JPA | SQL | Redis | Kafka | JWT | Spring Security | RESTful APIs | Microservices | Docker | AWS (S3) | Git | GitHub | JUnit | Mockito | Logback | Resilience4j