

Dhruv Kumar Singh

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Profile

Java Backend Developer with **3.5+ years of experience** specializing in designing, developing, and scaling **microservices** and **APIs** using **Java Spring Boot**. Expertise in **event-driven architecture**, asynchronous processing with **RabbitMQ** and **Kafka**, and strong background in optimizing system performance, security, and scalability. Skilled at implementing best practices for API development, security, and database integration using modern tools.

Skills

Languages: Java, C/C++, JavaScript, TypeScript, SQL, Data structures and algorithm

Backend Technologies: Spring Boot, Maven, Microservices, REST APIs, JPA/Hibernate, RabbitMQ, Kafka

Frontend Technologies: Angular, ReactJS, Node.js

DevOps & Tools: Jenkins, Git, GitLab, SonarQube, BlackDuck, Polaris, Kibana

Cloud & Infrastructure: AWS (EC2, S3, RDS, ELK), Docker, Kubernetes

Database: Oracle, MySQL, NoSql, MongoDB

Security: Spring Security, OAuth2, JWT, Password Encryption

Testing: JUnit, Mockito, Postman

Work Experience

TCS, Bangalore

Jun 2021 - Present

Software Engineer (Java Developer, Client - Wabtec)

- Upgraded core Spring Boot microservices from **Java 8 to Java 17** and **Spring Boot 2.x to 3.x**, leading to a **40% performance improvement** in load testing, enhancing system scalability and maintainability.
- Implemented **password encryption** across 20+ modules to eliminate hard-coded passwords, enhancing compliance with security best practices.
- Migrated hundreds of **stored procedures** to **JPA-based calls**, streamlining database interactions and improving application maintainability and scalability.
- Designed, developed, and secured **hundreds of REST APIs** using **Spring Boot**, ensuring optimal performance and scalability while implementing comprehensive **unit tests (JUnit)** and **integration tests**.
- Integrated **Spring Security** to safeguard sensitive information, implementing **JWT** and **OAuth2** for robust **authentication and authorization**.
- Implemented an **event-driven architecture** using **RabbitMQ** and **Kafka**, achieving asynchronous communication between microservices and ensuring **fault tolerance** and **high scalability**.
- Optimized the codebase with **caching strategies**, **dependency injection**, and **error handling** to enhance overall application performance and reduce technical debt.

DAIICT, Gandhinagar

Internship (FullStack Developer, Client - Monocept)

Jan 2021 - May 2021

- Contributed to a **Node.js** module by fixing bugs and developing RESTful APIs, improving backend stability and maintainability.

- Developed a **React.js** single-page application, enhancing user experience and improving frontend performance by resolving UI/UX issues and optimizing client-server communication.

Education

Dhirubhai Ambani Institute of Information and Communication Technology , Gandhinagar, Gujrat.

Msc in Information and Technology(Aug 2019- Jun 2021)

Project Work

Kabadiwala Web Application (2020):

Developed a **web application** for **buying and selling scrap materials** as part of a 5-member team. Utilized **Node.js** for the backend and **React.js** for the frontend. Implemented secure transaction processes and **real-time API integration** for efficient scrap management.

E-Commerce Website for Women's Clothing:(2020):

Designed and developed an **e-commerce platform** using **Angular** for the frontend and **Java** for the backend. Implemented features such as **product catalog management**, **secure payment processing**, and **user authentication**, leading to improved customer engagement and satisfaction.

Awards and Certificates

- **Star of the Month Award** – Multiple awards for outstanding contributions to Java and Spring Boot development, recognized for improving application performance and ensuring high-quality software delivery.