

# Dhruv Kumar Singh

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[linkedin](#) | [github](#) | [leetcode](#)

## Profile

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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

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**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

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**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.
- Created a proof of concept (POC) for a timesheet application using **React.js**, featuring an interactive UI with drag-and-drop and adjustable interface elements for tracking employee daily hours.

**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

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

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

## Project Work

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### **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

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- **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.