

# RISHAV KUMAR JAIN

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## Education

NIT, Jamshedpur

2021-2024

Master of Computer Application (CGPA: 8.00 / 10.00)

Jamshedpur, Jharkhand

- **Relevant Coursework:** Data Structures and Algorithms (C++), Java, Operating System, System Design.

## Experience

Tata Consultancy Services

Sep 2024 – Sep 2025

Software Engineer

Bhubaneswar, Odisha

- Developed sub-part of the existing core banking module using **Core Java** based interface, Enhanced modularity and integration with **Spring Boot** services.
- Played a key role in increasing **RESTful API** performance on Spring Boot application by tuning request handling and response time.
- Increased backend scalability by containerizing Spring Boot services using **Docker** and deploying **Nginx** as a simple load balance – increased response time by 25%.
- Acquired experience in **test automation**, developing and maintaining test models (using Conformiq) performed with **Robot Framework** integrated with Jenkins that resulted in a 25% decrease of defects after each release.
- Utilized Scrum methodologies with **Jira and Confluence** – participating in sprint cycles, grooming and daily stand up meetings – resulting in **15%** faster delivery cycle.
- Demonstrated foundational knowledge of the payment domain, particularly card payments, along with practical experience working in Agile environments.

## Projects

**Distributed Job Scheduler– Spring Boot** | Java, Thread, MySQL, SpringBoot | 🐙

- Designed a backend scheduler using Spring Boot with **ThreadPoolExecutor** to process jobs concurrently via **REST APIs**.
- Implemented a **round-robin dispatch** strategy to distribute tasks evenly across thread workers
- Persisted job metadata and execution status in MySQL for tracking and recovery.
- Containerized with Docker and integrated with NGINX for scalable, balanced request routing.

**Dynamic Load-Balanced Request Routing System** | Java, Spring Boot, Nginx | 🐙

- Designed and developed a backend system using Spring Boot to handle concurrent requests across multiple ports, simulating a scalable distributed architecture.
- Configured and deployed **Nginx** as a load balancer to distribute incoming traffic efficiently across multiple backend instances.
- Implemented multi-threaded request handling and optimized routing logic, resulting in a **30% reduction in server load** and improved system throughput.

## Technical Skills

**Languages :** C/C++, Java, Javascript, Linux

**Technologies :** ReactJS, Spring Boot, Maven

**Cloud Databases :** MongoDB, SQL

**Tools & Platforms :** IntelliJ IDEA, Postman, VS Code

**DevOps & Tools :** Docker, Nginx, GitHub, Jira, Confluence, Robot Framework

**Core Concepts :** Data Structures and Algorithms, Object-Oriented Programming (OOPs), System Design, DBMS

## Achievements

- Solved Problems on platforms like **LeetCode** and **GeeksforGeeks**.
- Qualified for the national-level coding competition **TCS CodeVita**.
- Achieved **993rd rank out of 19,000+ participants** in **LeetCode Biweekly Contest 116**.
- Secured an **All India Rank of 457** in the **NIMCET** national-level entrance exam .
- Qualified for the **Maths Olympiad** during Class 10.