

# Ravi Shankar Kumar

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GitHub

## EDUCATION

### Haldia Institute of Technology

Bachelor of Technology in Computer Science and Engineering

Haldia, WB

Aug 2019 - Jul 2023

- GPA: 9.1

## WORK EXPERIENCE

### Software Developer

Bengaluru, Karnataka

VersionX

Dec 2024 – Present

- Spearheaded the development of the backend for a student safety and transport system using **Spring Boot and React**, adopted by 50k+ users and supporting over 20k+ daily real-time pickup and drop-off transactions.
- Designed and implemented scalable APIs for School Admin Portal to register students, onboard parents, and manage transport mappings with robust validation and role-based access.
- Developed secure APIs to enable parent authentication via school-registered mobile numbers, retrieve linked children, manage relation data, upload ID card images, and trigger pickup notifications.
- Built backend services for the SafeChild App, allowing staff to verify guardians using QR/mobile, log pickup events, and sync real-time pickup data with parental alerts.
- Created APIs for the Bus Route tracking system used by 15k+ parents, with real-time GPS updates, stop-wise child pickup/drop validation, and alerting mechanisms.
- Implemented PostgreSQL data models and optimized query performance for handling high-volume transport logs, guardian verifications, and notification events.

### Backend Developer

Navi Mumbai, Maharashtra

Jio Platforms Limited

Dec 2023 – Aug 2024

- Asset Management System (Internal Tool)** — Developed using **Spring Boot** and **RPA** to manage company assets. Implemented scalable backend CRUD operations and auto-scaling, improving internal process efficiency by 20%.
- Integrated asynchronous validations and concurrency control in **Spring Boot** APIs, reducing backend processing time by 30%.
- Optimized **PostgreSQL** queries through advanced indexing and schema normalization, achieving a 25% performance boost.
- Coupon Management System (JioMart)** — Designed and implemented a scalable, secure backend system in **Spring Boot** for coupon lifecycle management across the e-commerce platform serving 1L+ users.
- Built secure, RESTful APIs with one-time coupon validation logic and fraud-prevention mechanisms, reducing abuse by 30% and ensuring reliable discount application.
- Improved backend API efficiency by refactoring logic and streamlining database interactions, enhancing reliability during peak order volumes.

## TECHNICAL SKILLS

**Programming Languages:** Java, JavaScript, TypeScript, Python

**Frameworks & Libraries:** Spring Boot, Spring Security, React, Angular, Redux, Bootstrap, Tailwind CSS

**Databases:** MySQL, PostgreSQL, MongoDB

**Tools & Technologies:** Git, GitHub, Postman, Linux, CI/CD, Firebase, RESTful APIs, JWT, Maven, Docker, Kubernetes, Microservices, Kafka, HTML, CSS

## PROJECTS

- SwiftRide** — Engineered a scalable ride-hailing platform using Spring Boot and Angular. Features include real-time route tracking, dynamic pricing, JWT-based authentication, driver onboarding, ride booking/cancellation, and support for over 1,000 users. [GitHub](#)

## ACHIEVEMENTS

- Mentor at Coding Shuttle, helping students who are stuck in DSA and web development concepts and providing solutions to their questions

## LINKS

**Portfolio:** [Portfolio](#) **GfG:** [ravi48hit](#) **LeetCode:** [Ravi8264](#)