




# Vishnu Choubey

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## PROFESSIONAL SUMMARY

Final-year B.Tech Computer Science student with strong skills in full-stack development and real-time systems. Proficient in **React, Spring Boot, WebSocket, Redis**, and **PostgreSQL**. Built a live bus tracking system with predictive logic. Passionate about solving real-world problems through clean, scalable code.

## EDUCATION

**GL Bajaj Institute Of Technology and Management**

*Bachelor of Technology in Computer Science - CGPA - 8.01*

**Nov 2022 – Jul 2026**

*Greater Noida, India*

**Shivam School | CBSE**

*Senior Secondary - Percentage - 81%*

**Aug 2020 – Jun 2022**

*Patna, India*

## PROJECTS

**CheckIt**  | React.js, Spring Boot, Redis, PostgreSQL, Leaflet.js, WebSocket, OSRM [Live Link](#)

- Built **real-time tracking** with **<500ms latency** using GTFS-Realtime data and OSRM for dynamic route snapping/ETA prediction.
- Implemented **WebSocket/STOMP** with topic-based pub/sub (Spring Boot + Redis) to broadcast vehicle positions to **2,000+ concurrent users**.
- Enabled **nearest bus stop detection** via PostgreSQL's PostGIS extension, reducing user walk time by **~15%**.
- Developed **interactive map UI** (React + Leaflet.js) with searchable routes/stops and Razorpay ticket booking
- Containerized services (Docker) for seamless deployment; integrated **Delhi OTD API** to handle **15K+ reqs/hour** during peaks.

**KabadiHunt**  | React.js, Spring Boot, MongoDB, JWT, Razorpay, Leaflet.js, REST API [Live Link](#)

- Developed full-stack platform connecting 500+ households with local kabadiwalas using **React.js and Spring Boot**.
- Implemented **Razorpay** payment gateway with 50+ successful test transactions.
- Created **CNN-based scrap classification** (80% accuracy) using Clouinary for photo storage/processing.
- Designed location-based kabadiwala discovery with dynamic routing via Leaflet.js and secured access using JWT and role-based authentication.
- Dockerized backend microservices for seamless deployment across environments, ensuring faster onboarding and reduced system downtime.

## TECHNICAL SKILLS

- **Languages & Frameworks** : JavaScript (ES6+), Java, Python | React.js, Spring Boot, Node.js, Tailwind CSS
- **Databases & Messaging** : PostgreSQL, MongoDB, Redis, MySQL, Kafka
- **Cloud & DevOps** : AWS (EC2, S3), Docker, GitHub Actions
- **Tools & Testing** : Git, VS Code, IntelliJ, Postman | REST API Testing, Selenium
- **Core Concepts** : OOP, DSA, REST APIs, WebSocket, JWT, Machine Learning

## EXTRACURRICULAR

**BrainWave Hackathon (AIMS DTU × OnDemand) – Front-End Developer** 

- *Developed and optimized the CITY-ASSIST platform's front end using the MERN stack, enabling intuitive civic complaint submissions.*
- *Integrated an NSFW image classification API to filter inappropriate content before submission.*
- *Secured 5th place out of 100+ teams and received a letter of appreciation from municipal authorities for the project's practical utility.*

## ACHIEVEMENTS & CERTIFICATIONS

- LeetCode: Solved 600+ problems | Contest Rating: 1750+
- Cloud Virtual Internship - AWS Academy
- Selenium WebDriver Basics – Udemy.
- Alteryx Foundational Micro-Credential and Design Core Certified.