

# Roshan Kumar Gupta

• 6297195226 | • roshanguptarkg@gmail.com | • LinkedIn | • GitHub | • Portfolio

## PROFESSIONAL SUMMARY

Aspiring Backend Engineer with strong Java and JavaScript skills, specializing in building scalable APIs using Node.js, Express.js, and modern databases. Passionate about high-performance systems, currently planning to explore Python with AI & ML technologies in the future.

## EDUCATION

<b>Asansol Engineering College</b> <i>Bachelor of Computer Applications (B.C.A)</i>	Asansol, West Bengal Expected June 2026
• Active member of Google Developer Student Community, collaborating on projects and engaging in tech workshops and coding sessions	

## TECHNICAL SKILLS

**Programming Languages:** JavaScript, Java

**Backend Technologies:** Node.js, Express.js

**Databases:** MongoDB, Oracle DB, Redis, Mongoose

**Frontend Technologies:** HTML, Tailwind CSS, EJS

**Tools & Technologies:** NPM, Git, GitHub, Postman, Render, Railway, Vercel

**Core Competencies:** RESTful API Development, WebSockets, Authentication & Security, Real-Time Systems

**Soft Skills:** Communication, Teamwork, Leadership, Problem-Solving

## PROJECTS

<b>Real-Time Device Tracking System</b>   <i>Node.js, Express.js, Socket.io, Leaflet.js</i>	2024
• <b>GitHub   Live Demo</b> - Developed a real-time map-based tracking system inspired by Uber and Zomato, enabling live location updates for multiple devices	
• Implemented WebSocket connections using Socket.io for low-latency, bidirectional communication between clients and server	
• Integrated Leaflet.js API to render interactive maps with real-time marker updates and geolocation visualization	
• Optimized backend architecture with Node.js and Express.js to handle concurrent connections with minimal server load	
• Designed scalable solution supporting multiple simultaneous users with smooth location update transmission	
• <b>Research Publication:</b> Selected for publication in MANTECH Publications (2025) - "Optimizing Last-Mile Delivery in Indian E-Commerce Using Real-Time Geo-location Capture"	

<b>The Bag Company E-Commerce Platform</b>   <i>Node.js, Express.js, MongoDB, Tailwind CSS, EJS</i>	2024
---	------

- **GitHub | LinkedIn Post** - Built a fully functional e-commerce platform with complete product lifecycle management and secure payment processing
- Implemented JWT-based authentication and Bcrypt password hashing to ensure secure user access and data protection
- Developed role-based access control (RBAC) system separating admin and user privileges for product management
- Integrated Razorpay payment gateway for secure transaction processing and order fulfillment
- Designed session management using cookie-parser for seamless authentication flow across user sessions
- Implemented file upload functionality using Multer middleware for product image management
- Created RESTful API endpoints for cart management, product browsing, and admin operations

## RESEARCH & PUBLICATIONS

<b>"Optimizing Last-Mile Delivery in Indian E-Commerce Using Real-Time Geo-location Capture"</b>	2025
• <b>View Paper</b> - Selected for publication in MANTECH Publications	
• Research focused on leveraging real-time geolocation technology to improve last-mile delivery efficiency in Indian e-commerce sector	

## CERTIFICATIONS & ACTIVITIES

<b>Google Developer Student Community</b>	Ongoing
• Active participant in collaborative projects, technical workshops, and competitive coding sessions	
• Engaged in peer learning and knowledge sharing on emerging technologies and best practices	