

Roshan Kumar Gupta

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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 learning Python, and planning to explore AI & ML technologies in the future.

EDUCATION

Asansol Engineering College <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, Python

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

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

Real-Time Device Tracking System <i>Node.js, Express.js, Socket.io, Leaflet.js</i>	2024
• GitHub Live Demo - 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	
• Research Publication: Selected for publication in MANTECH Publications (2025) - "Optimizing Last-Mile Delivery in Indian E-Commerce Using Real-Time Geo-location Capture"	

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

"Optimizing Last-Mile Delivery in Indian E-Commerce Using Real-Time Geo-location Capture"	2025
• View Paper - 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

Google Developer Student Community	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	