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 and currently learning SpringBoot and planning to get started with AI & ML in future.

Technical Skills :

Programming Languages	:	JavaScript, Java.
Backend Technologies	:	Node.js, Express.js.
Databases	:	MongoDB, Oracle DB, Redis, Mongoose.
Frontend Technologies	:	HTML,Tailwind CSS(basic) , EJS.
Tools & Methodologies	:	NPM,Render, Railway,Github, Vercel, Postman.
Soft Skills	:	Communication, Teamwork, Leadership, Problem-Solving.

Projects :

1. *Real-Time Device Tracking* *(Research project based on Websockets and geolocation) :*
Github | Live
A real-time map-based tracking system inspired by Uber/Zomato with the following :

Tech Stack: Node.js, Express.js, Socket.io, Leaflet.js.
  Real-Time Tracking:
    Live location updates using WebSockets (Socket.io).
    Interactive maps powered by Leaflet.js api.
  Backend Functionality:
    Node.js & Express.js for server-side logic.
    Efficient data transmission for low-latency tracking.
  Scalability & Optimization:
    Smooth location updates for multiple users/devices.
    Optimized WebSocket connections for minimal server load.

2. *The Bag Company* *(backend heavy) :* *Github | Linkedin*
A dynamic and fully functional e-commerce platform with the following features:

Tech Stack: Node.js, Express.js, MongoDB, Tailwind CSS, EJS.
  Authentication & Security:
    User authentication using JWT and Bcrypt.
    Role-based access control (admin & user).
    Session management with cookie-parser for a seamless authentication flow.
  Product & Cart Management:
    Only admin can add, update, or remove products.
    Users can browse and manage products in their cart.
    Product uploads handled using Multer.
  Payment Integration:
    Secure payment processing via Razorpay.

Research and publications :

"Optimizing Last-Mile Delivery in Indian E-Commerce Using Real Time Geo-location Capture", MANTECH Publications – Selected for publication (2025). *view*

Education :

Bachelor of Computer Applications (B.C.A), Asansol Engineering College , Expected JUNE 2026.
Workshops: Active member of the Google Developer Student Community, collaborating on projects and engaging in tech workshops & coding sessions.