

PawanKumar Gupta

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EDUCATION

D.G. Ruparel College

Bachelor of Computer Science, CGPA 9.50

A.E.S High School and Junior College

H.S.C : 77.17%

N.K.E.S. High School

S.S.C : 84.20%

Mumbai, India

Jul 2022-Expected 2025

Mumbai, India

Jul 2020 -Mar 2022

Mumbai, India

Jul 2010-Mar2020

WORK EXPERIENCE

Freelance React Developer

- Developed and delivered two React-based web applications within a two-month timeframe.
- Collaborated with clients to define project requirements and ensure seamless user experiences.
- Integrated backend APIs and implemented responsive designs using React.js and CSS.
- Optimized application performance, reducing load times by 25%.

PROJECTS

1. LITTO - Garbage Management Web Application | NodeJS

Repository

A comprehensive solution for efficient garbage management to enhance urban cleanliness.

- Secure Authentication:** Implemented role-based access control for various users (residents, collectors, administrators).
- Incident Reporting with Geotagging:** Allowed users to report litter hotspots with photos and descriptions pinpointed on a map.
- Task Management:** Enabled administrators to assign tasks to garbage collectors and track progress in real-time.
- Development Metrics:** Reduced task allocation time by 30%, enabling faster cleanup response times.
- Collection Scheduling:** Offered regular garbage collection schedules and special pickup requests.
- Cleaning Drives:** Introduced a feature allowing users to volunteer for community cleaning initiatives, fostering public participation in maintaining urban cleanliness.
- System Efficiency:** Achieved 99.9% uptime and reduced server response time to under 200ms.
- Adopted Agile methodology for iterative development based on user feedback.

Ensured seamless integration between the frontend and backend using Express.js, Node.js, and MongoDB. Employed Agile methodology to iteratively refine the application based on user feedback.

2. SafyZone - Crowdsourced Safety Mapping Web Application | NodeJS

Repository

Developed a web application aimed at enhancing urban safety through crowdsourced data and real-time insights. Key features included:

- Crowdsourced Reporting:** Allowed users to report incidents with location tags and media uploads.
- Safety Heatmaps:** Designed dynamic heatmaps to highlight high-risk areas.
- Route Safety Scores:** Generated AI-based safety ratings for different routes.
- Data Insights:** Aggregated over 15,000 incident reports for pattern analysis and trend identification.
- Technical Optimization:** Increased map rendering speed by 50%, ensuring smoother user experiences.
- Community Verification:** Integrated a system for validating reports with comments and votes.

Leveraged a tech stack including Node.js, Express.js, MongoDB, EJS templates for server-side rendering, and Google Maps API for geospatial features. Designed to empower citizens and support law enforcement through automated escalation of critical incidents.

TECHNICAL SKILLS

Programming Languages: Java, C, C++, Python

Web Development: HTML, CSS, JavaScript, Node.js, Express.js

Frontend Framework: React.js

Databases: MySQL, MongoDB

ACHIEVEMENT

- Finalist, Odoo Combat 2024
- Winner, College Hackathon 2024, D.G. Ruparel College
- Finalist, AceHacks 2024