Raunak Kumar Jha

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SUMMARY

Results-driven Full Stack Developer with expertise in building scalable web applications, backend systems, and cloud deployments. Proficient in frontend frameworks, API integration, and database management. Strong foundation in DevOps practices with hands-on experience in containerization and CI/CD pipelines.

PROJECTS

Hospital Medical Information System (HMIS)   GitHub

Tech: React (TypeScript, Vite), Django, PostgreSQL, Redis, Docker, Clerk, Chart.js

- Built a full-stack hospital management system with modules for patient management, billing, diagnostics, and pharmacy.
- Designed secure PostgreSQL schema and implemented CRUD operations for patients, staff, and appointments.
- Developed role-based authentication and access control using Clerk, ensuring data security and compliance.
- Integrated analytics dashboard with Chart.js for real-time reports on admissions, resource utilization, and inventory.
- Added notification system with SMS/email alerts for appointments and low-stock medicine alerts.
- Containerized services with Docker and deployed application on cloud with GitHub version control.

C2S – Commuter Cab Services (Cab Management System)   GitHub

Tech: Django, Django REST Framework, Django Channels, PostgreSQL, Redis, Docker, Nginx, WebSockets

- Developed a real-time public transport tracking system for tier-2 cities with live commuter management and bus tracking.
- Implemented multi-tenant architecture enabling multiple transport authorities to manage independent fleets.
- Built WebSocket-based communication (Django Channels) for instant commuter-driver updates and real-time trip logging.
- Designed PostgreSQL database with Redis caching for optimized performance and low-latency updates.
- Containerized services with Docker and deployed using Nginx as reverse proxy.
- Enhanced system reliability with authentication, session management, and bandwidth-optimized APIs.

EDUCATION

| 2024 – Present | Bachelor's in Computer Science, **Gandhinagar Institute of Technology** | GPA: 9.5 |
| 2024 – Present | Micro-Credit Program in CSE, **Indian Institute of Technology, Guwahati** | GPA: 9.8 |

SKILLS

Technical Skills

Programming:	C, C++, Python, JavaScript (ES6+), TypeScript, Java, Go, MATLAB.
Frontend:	React.js, Next.js, Angular, Vue.js, Vite, HTML5, CSS3, TailwindCSS, Bootstrap.
Backend & APIs:	Django, Django REST Framework, Flask, Node.js, Express.js, .NET.
Databases:	MySQL, PostgreSQL, MongoDB, Redis.
Visualization:	Chart.js, Matplotlib, Google Charts.
Cloud & DevOps:	Docker, Kubernetes, AWS, GitHub Actions, Git, Nginx.
Hosting / BaaS:	Firebase, Heroku, Supabase, Vercel.
Tools & IDEs:	VS Code, Figma, Cursor, Postman, Linux.
Testing:	Selenium, Jest, PyTest.
Core Concepts:	DSA, System Design, CI/CD orchestration, DevOps practices, IoT, OS, Web3.

Soft Skills: Problem Solving, Collaboration, Communication, Adaptability, Time Management.