

Rishabh Pal

 [risbh19](#)

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 palrishabh989@gmail.com

EDUCATION

Raj Kumar Goel Institute of Technology

Bachelor of Technology in Computer Science Engineering

- CGPA: 7.8/10

Ghaziabad, India

2024 – 2028

EXPERIENCE

Software Testing Intern

June 2026 – Present

R-Cube Green Technology LLP

Remote

- Executed functional and regression testing on AcadShree School ERP modules using Postman for API validation, documenting defects with detailed reproduction steps and severity classifications.
- Performed API endpoint testing and response validation, alongside usability and workflow analysis across ERP features, preparing structured test reports for the development team.
- Collaborated with developers for bug triage and issue resolution, leveraging Postman collections to verify end-to-end API behaviour and feature integrity across the platform.

PROJECTS

CareFlow | *Next.js 14, FastAPI, MongoDB Atlas, JWT, Groq (Llama 3.1 8B), SSE*

2026

- Built a unified role-based hospital management platform with isolated Doctor, Nurse, and Patient portals using Next.js 14 + FastAPI + MongoDB Atlas with JWT-gated role isolation and real-time cross-portal sync via SSE streaming.
- Engineered a full doctor-to-nurse task lifecycle covering assignment, real-time status updates, timestamped completions, and task immutability post-assignment for clinical accountability.
- Integrated Llama 3.1 8B via Groq for AI clinical logic; implemented a paperless prescription system mirrored to the Patient portal with full admission-to-discharge history.

Wave-Safe | *FastAPI, React, PostgreSQL/PostGIS, Redis, Celery, Docker*

2026

- Engineered a risk engine normalising 8 hazard features into a weighted logistic Safe/Caution/Unsafe score, with hard override on tsunami/storm-surge alerts; fed by INCOIS, SACHET (CAP) and Open-Meteo connectors with Redis deduplication.
- Designed a 12-state SOS dispatch state machine with PostGIS jurisdiction-based routing to 8 responder roles and Celery-driven auto-escalation to 112 fallback (ack timers polled every 15s).
- Built a FastAPI backend (60+ REST endpoints, OTP + JWT auth) on PostgreSQL/PostGIS with offline SOS queueing, and containerised 10 services (API, Celery workers, Redis, React/Vite frontend) via Docker Compose.

TECHNICAL SKILLS

Languages: Python, C++, HTML, JavaScript

Data Science & Analytics: pandas, NumPy, SQL, Feature Engineering, Customer Segmentation, EDA

AI / LLM: Groq (llama-3.3-70b, llama-3.1-8b), Gemini Flash, HuggingFace Embeddings, NLP

Frameworks: FastAPI, Next.js 14 (App Router), React.js

Databases: MongoDB Atlas

Testing & QA: Postman, API Testing, Functional Testing, Regression Testing, Test Report Documentation

BI & Visualisation: Power BI

APIs & Integrations: GitHub REST API, NewsAPI, Reddit API

Auth & Security: JWT (Role-Gated), .env Secrets Management

Deployment & DevOps: Vercel, Render, Docker, AWS, Git/GitHub, GitHub Actions

Frontend: Tailwind CSS, React Hooks

Other: Windows Subsystem for Linux (WSL)

ACHIEVEMENTS

Global Finalist — Strategy Storm 2026, IIT Guwahati

Top 8 Teams — Investomania 2026, IIT Hyderabad

First Runner-Up — Hackwatts (College Hackathon)