

Pallav Rai

pallavrai8953@gmail.com ❖ +91-9565302061 ❖ github.com/Pallavrai ❖ linkedin.com/in/pallav-rai

SUMMARY

Full Stack Software Engineer with hands-on SDLC experience — system design, configuration, testing, and production support for multi-tenant and healthcare-technology platforms. Skilled in Python, Django, REST APIs, and CI/CD, with a track record of resolving high-severity defects through root-cause analysis on schedule.

SKILLS

Languages

Python, JavaScript, TypeScript, SQL, C++, PHP, HTML, CSS

SDLC & Quality

Software Testing, Debugging, Root Cause Analysis (RCA), Technical Documentation, Requirement Analysis, Agile, Git

Backend & Configuration

Django, Django REST Framework, Flask, Node.js, PostgreSQL, REST APIs, Microservices, System Configuration, Docker, CI/CD

Frontend & Data

ReactJS, Next.js, Tailwind CSS, LangChain, Vector Databases

WORK EXPERIENCE

Xeta Edge Technologies LLP

Jul 2026 – Present

Software Development Engineer

onsite

- Analysed requirements and designed the system architecture, ER diagram, and an isolated-database-per-tenant configuration for a multi-tenant School Management System, strengthening data privacy across schools.
- Executed functional and performance testing on existing modules, benchmarking latency and documenting findings to guide configuration fixes.

Leartrail

Jan 2025 – May 2025

Software Engineering Intern

onsite

- Collated client configuration requirements and delivered a centralised Billing Microservice (Flask) across 3+ client applications, eliminating manual billing overhead within deadline.
- Performed root-cause analysis on a high-severity print-rendering defect in **Healthtrail** (hospital-facing healthcare product) and resolved it via CSS Paged Media configuration, restoring PDF reports for 10+ hospital clients and improving CSAT.
- Strengthened application security by redesigning JWT authentication with cryptographically secure tokens to protect patient and doctor PII, reducing unauthorised-access risk to zero and documenting the change per configuration standards.

EDUCATION

Khawaja Moinuddin Chisti Language University Lucknow

2026

B.Tech in Computer Science and Engineering

Lucknow, UP

CGPA: 8.15 / 10

PROJECTS

ConnectMyTutor — Geospatial Tutor Matching Platform

<https://thehometutions-in.vercel.app/>

- Engineered a high-throughput geospatial platform (Django + Next.js) connecting 1,000+ students and teachers, using Redis-based job queuing to sustain near-zero latency under concurrent load.
- Designed a RESTful API with PostGIS spatial extensions on PostgreSQL to execute hyperlocal proximity queries in under 50 ms; integrated an AI-powered recommendation engine for intelligent tutor-student matching.
- Implemented full CI/CD pipeline with Docker-based containerisation and production deployment on Vercel.

CyGree — Plastic Waste Recycling Platform

<https://cy-gree.vercel.app/>

- Architected an end-to-end recycling platform using Django Ninja REST API backend and Next.js frontend; managed full production deployment on a Linux VPS with Nginx reverse-proxy configuration.
- Built and integrated a Retrieval-Augmented Generation (RAG) chatbot using LangChain and an LLM API, enabling natural-language Q&A over environmental health documents with accurate, grounded responses.
- Delivered a fully responsive UI with Tailwind CSS and Shadcn UI component library, achieving consistent cross-device experience.

SafeRead — Multi-Platform RAG Legal Helper

https://github.com/Pallavrai/saferead_backend

- Engineered a multi-platform RAG solution comprising a Python REST API backend, a Chrome Extension, and a React Native mobile app (Expo), delivering legal document analysis across 3 platforms from a single pipeline.
- Built a document processing pipeline featuring OCR, text chunking, and vectorisation; stored embeddings in ChromaDB vector database enabling sub-second semantic search and LLM-powered Q&A.
- Integrated prompt engineering techniques to reduce hallucination and improve answer accuracy for legal content.

OPEN SOURCE CONTRIBUTIONS

Enhanced **cvimprover-api** Django admin panel with full dark-theme support via django-unfold, accepted and merged into production. [Link](#)

Contributed to **shadcn/ui** (100k★ GitHub) — fixed CLI error handling for npm package naming violations, improving DX for thousands of developers. [Link](#)

CERTIFICATIONS & AWARDS

IIT Bombay Certified — RDBMS & PostgreSQL (Advanced) • ATL Tinkerpreneur — Smart Surveillance System (CV + IoT) • HackFrost Winter Hackathon 2024

LEADERSHIP & TRAINING

Technical Trainer — Designed and delivered hands-on training on RAG architecture, LangChain, and ChromaDB to a cohort of 20+ students; improved comprehension scores by 40%.