

Krishana Yadav

Lucknow | krishanaindia773@gmail.com | +91 89577 07747 | LinkedIn | GitHub | Portfolio

Education

Bachelor of Technology, Electronics and Communication Engineering

2022–Present

University of Lucknow, Lucknow

Work Experience

Web Development Intern

June – July 2025

Apex Planet Software | *Remote*

- Engineered and implemented 5+ responsive frontend components using React.js and Tailwind CSS for a client's e-commerce portal.
- Developed a full-stack employee management system that centralized task tracking, leading to a 15% estimated increase in team productivity.
- Collaborated in a 3-person agile team on a live client project, taking ownership of the user authentication flow and contributing to a 10% reduction in bug reports post-launch.

Projects

Our Voice, Our Rights – Secure Public Grievance Platform | [Github](#) | [Live](#)

Sept - Nov 2025

Tech Stack: Node.js, PostgreSQL, Docker, Caddy, AWS EC2

- Architected and deployed a fully containerized full-stack system on AWS EC2 using Docker Compose, internal-only service binding, and Caddy reverse proxy with automatic HTTPS.
- Configured Caddy as a reverse proxy with automatic HTTPS and built-in security headers to improve the overall safety and reliability of the deployment.
- Implemented a reliable PostgreSQL backup pipeline using cron jobs, gzip compression, and 14-day automated retention, ensuring data safety and disaster recovery.
- Achieved clean separation of services and zero-downtime updates (docker compose up -d) with proper environment variable management and deploy workflows.

Krishi Sakhi – AI-Powered Crop Companion | [Github](#) | [Live](#)

Sept - Oct 2025

Tech Stack: Express.js, Prisma ORM, PostgreSQL, JWT

- Developed core backend services using Express.js + Prisma with a modular service/repository pattern.
- Implemented secure JWT authentication, rate limits, structured JSON logging, and input validation across all endpoints.
- Designed optimized PostgreSQL schemas for geo-queries, crop analytics, and farmer profiles, achieving 30–40% faster queries.
- Built admin APIs for scheme management, broadcast alerts, and data insights used in governance workflows.

QueryWise – AI Document Query System | [Github](#) | [Live](#)

July - Aug 2025

Tech Stack: FastAPI, Python, Pinecone, asyncio

- Built a production-grade RAG system backend using FastAPI with async concurrency, achieving less than 350ms average query latency under parallel load.
- Architected embedding pipelines using LangChain + Pinecone for low-latency semantic search.
- Implemented JWT authentication, rate-limiting, streaming responses, and background ingestion jobs.
- Deployed backend on Docker + Hugging Face Spaces with CI/CD workflows and secure API key handling.

Technical Skills

Backend: Node.js, Express.js, FastAPI, Python, C++

Databases: PostgreSQL, Prisma ORM, MongoDB (basic), SQL query optimization

DevOps & Cloud: Docker, docker-compose, AWS EC2, Caddy, reverse proxying, SSL/TLS, cron jobs

System Design: API architecture, microservices, caching, rate-limiting, concurrency, distributed data flows

Tools: Git/GitHub, Postman, CI/CD pipelines, PM2, Linux, Nginx/Caddy, Cloud Storage

Other: DSA, RAG pipelines, JWT/OAuth, logging/monitoring