

# NAVAL KISHOR JHA

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## EDUCATION

### IIMT College Of Engineering, Greater Noida

Bachelor of Technology in Information Technology

2025

### Bahera College Bahera, Darbhanga, Bihar

Higher Secondary Education (12th)

2021

## EXPERIENCE

### Bhoomi TechZone Pvt. Ltd.

July 2025 – Present

*Python Developer*

- Developed and maintained backend applications using **Python**, **Django**, and **FastAPI**.
- Built REST APIs, optimized database queries, and integrated third-party services.
- Implemented core features for internal and client-facing applications.

## PROJECTS

### Chat X (FastAPI, MongoDB, Redis, WebSockets)

Developed a real-time messaging backend supporting one-to-one and group chats using **FastAPI**, **MongoDB**, and **Redis**. Implemented live communication through WebSockets, JWT-based authentication, user presence tracking, and message persistence with read receipts. Integrated rate limiting and caching using Redis to enhance scalability and performance. Built a modular architecture supporting both REST and WebSocket layers for seamless client integration.

### TalentIQ – AI Resume Screening (FastAPI, MongoDB, OpenAI)

Created an AI-powered backend system that automatically analyzes and ranks resumes against job descriptions using the **OpenAI API**. Implemented a robust resume parsing engine to extract candidate skills, education, and experience. Designed APIs for recruiters to upload and compare multiple resumes, producing AI-driven match scores and insights. Focused on clean architecture, secure authentication, and data storage in **MongoDB**. Optimized API response time for large document parsing workflows.

### CodeMonitor – AI Coding Assistant (FastAPI, MongoDB, OpenAI API)

Built a cloud-based AI coding assistant that helps developers generate, debug, and explain code in real time. Utilized **FastAPI** with asynchronous endpoints and **WebSockets** for live chat sessions. Integrated **OpenAI's GPT models** for code completion, debugging suggestions, and AI explanations. Added user authentication with JWT tokens, query rate limiting, and persistent session tracking via **MongoDB**. Enabled snippet storage and retrieval for developers across multiple sessions.

### Ride Booking System (FastAPI, MongoDB)

Developed a full-featured backend for a ride-sharing platform with OTP-based login, driver-rider matching, and fare estimation. Implemented live ride tracking, scheduled rides, and dynamic pricing algorithms using **FastAPI**. Integrated multiple payment options (Cash, Wallet, UPI, Cards) and carpooling functionality. Designed the admin panel API to monitor rides, drivers, and analytics. Focused on scalability, modularity, and data integrity using **MongoDB** and JWT authentication.

### Office Employee Management System (Django, SQLite)

Designed and developed a complete HR management system for small businesses using **Django**. Implemented CRUD operations for employee records, department management, attendance, and salary modules. Added admin controls, search filters, and validation forms for smooth data handling. Created a responsive web interface using **Bootstrap**, ensuring easy usability and fast data access. Deployed with a lightweight **SQLite** database for internal use and scalability.

## TECHNICAL SKILLS

**Programming Languages:** Python, C, C++, JavaScript

**Frameworks/Technologies:** Django, FastAPI, REST APIs, HTML, CSS

**Database:** MySQL, MongoDB, SQLite

**Tools:** Git, GitHub, VS Code

**Coursework:** DSA, OOPS Concept, Computer Network, AI, OS, DBMS

## CERTIFICATIONS

- Google Cyber Security Certificate
- Google Cloud Bootcamp
- HackerRank – Python (Basic)
- HackerRank – SQL (Basic)
- Deloitte Australia Technology Job Simulation – Forage