

Chaitanya Yadav

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Skills

Programming: Python , JavaScript, TypeScript, C/C++, Rust, Shell Scripting, Data Structures and Algorithms.

Web & Backend: Next.js, Node.js, NestJS, FastAPI, StreamlitUI ,React, Express.js, REST APIs, PostgreSQL, MySQL, MongoDB,TypeORM, Prisma

AI/GenAI Development: LangChain, LangGraph, LangSmith, LangGraph Studio, ReAct, MCP (Model Context Protocol), Ollama (local LLMs), RAG Systems, VectorDB(Qdrant, Pinecone),LLM-Oriented Design, pandas, numpy

DevOps/Tools: Git, GitHub, CI/CD, Linux, Postman, Insomnia, Jupyter Notebooks, Render, Vercel

Languages: English (Professional), Hindi (Native)

Experience

Backend Developer Intern

PearlThoughts (Remote)

Jul 2025 – August 2025

- Built and deployed a **doctor appointment scheduling system** using **NestJS, PostgreSQL, TypeORM**, exposing **20+ REST endpoints** and **10+** normalized tables with indexed queries.
- Implemented **JWT-based auth** with **role-based access** (e.g., Admin/Doctor/Patient) and request validation; added **centralized error handling** to cut bug reports by 20% during QA.
- Authored **50+ Postman test cases** and **basic unit/integration tests**; collaborated on CI with GitHub Actions (**build & test on each PR**).
- Introduced **elastic slot management** for scheduling which increased the performance by 50%; added pagination & caching on read-heavy endpoints to keep **API latency low** under typical loads.

Backend Developer - Team Lead

bdbvpl (Remote)

Dec 2024 – Jan 2025

- Led backend delivery for a **professional analytics dashboard** which tracks and analyze 5+ performance metrics; designed API contracts and implemented services using **Next.js (API routes)** with **PostgreSQL**.
- Shipped **2 production releases** in a 6-week window; coordinated code reviews and Git workflows to maintain **consistent release cadence**.
- Built **multi-entity data models** and **role-based access**, enabling clean separation of concerns and faster feature rollout.
- Maintained clear communication with **Client** for any modifications or introducing new features within 4 to 5 hours.

Education

B.Tech., Computer Science Engineering

Maharishi Dayanand University, Rohtak

2022 – 2026

Projects

- **AI Resume Generator:** Built an AI-powered resume generator that creates **ATS-optimized resumes** based on user-given information; with **FastAPI** backend for request handling, with an interactive **Streamlit UI**, which can generate resumes with **80%+ ATS score** benchmarks.
- **Reddit Data Analyzer (MCP):** Developed an AI chatbot via **MCP server** to fetch/analyze Reddit posts & comments; supported **access to 1000+ threads**, with tool-chaining, and enforced prompt guards for safe automation.
- **Study Buddy (LangGraph + FastAPI):** Implemented a multi-step **agent graph** over PDF notes; handled **200+ pages per session**, with follow-up queries; reduced the study query resolution time by **40%**.
- **Blockchain (Rust):** Implemented core primitives (block, chain, hashing, validation) to demonstrate consensus mechanics and data integrity checks.

Certifications

- **Complete Node.js Developer** — Udemy (Express.js, REST APIs, Auth, MongoDB, Deployment)
- **Ethical Hacking Bootcamp** — Udemy (Cybersecurity fundamentals, basic pentesting)
- **API Fundamentals** — Postman (API design, testing, documentation, workflows)