

ADITYA SINGH TOMAR

+91-9302497187 — adityasinghtomar52@gmail.com — LeetCode — LinkedIn — GitHub — Portfolio

Summary

Full Stack and Backend Developer with hands-on experience in building scalable web applications, REST APIs, AI-powered systems, and Retrieval-Augmented Generation (RAG) solutions. Skilled in developing production-ready applications using Node.js, React.js, MongoDB, LangChain, and LangGraph with strong backend and system design fundamentals.

Education

Bennett University

B.Tech in Computer Science and Engineering
CGPA: 8.1

2023 – Present
Greater Noida, Uttar Pradesh

Technical Skills

Languages: Python, SQL, JavaScript, C++, HTML, CSS

Frameworks & Libraries: React.js, Next.js, Node.js, Express.js, Tailwind CSS

AI / Machine Learning: LangChain, LangGraph, RAG, Hugging Face, NumPy, Pandas

Databases: MongoDB, PostgreSQL, MySQL, Vector Databases

Tools & Platforms: Git, GitHub, Docker, Docker Compose, VS Code, Vercel, Render

Core Concepts: REST APIs, Authentication, API Integration, Async/Await, Data Processing

Projects

Learning Management System (LMS) —

- Built and deployed production-ready REST APIs for a Learning Management System supporting Instructor and Student roles.
- Designed scalable MongoDB schemas for courses, lectures, enrollments, and purchase records.
- Integrated Razorpay for secure payments with verification and transaction tracking.
- Implemented JWT authentication, bcrypt hashing, HTTP-only cookies, and role-based access control.

Context AI —

- Developed an end-to-end Retrieval-Augmented Generation (RAG) system for querying custom documents.
- Implemented document ingestion, chunking, embeddings, vector search, and OpenAI integration.
- Built scalable backend services using FastAPI, SQLAlchemy ORM, and PostgreSQL.
- Designed a real-time document querying pipeline for intelligent context-aware responses.

NextHire: AI-Powered Preparation Platform —

- Built a full-stack platform for resume analysis, skill-gap detection, and AI-generated interview preparation.
- Implemented secure authentication and automated resume parsing using Puppeteer.
- Generated personalized interview questions and recommendations using Generative AI APIs.
- Designed scalable backend APIs and responsive frontend workflows for job preparation.

Achievements

- Ranked 48th among 600+ teams in Smart BU Hackathon 2025
- Achieved a competitive programming contest rating of 1461
- Earned a 3-star rating on CodeChef
- Solved 500+ DSA problems across coding platforms

Certifications

- Operating Systems and You: Becoming a Power User — Google (Jan 2025)
- Computer Networks and Network Security — IBM (Jan 2025)