

Animesh Jha

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Professional Summary

Software Engineer with experience in enterprise software development and hands-on experience in Python, Java, FastAPI, SQL, and Generative AI. Skilled in backend development, REST APIs, RAG, LLMs, data preprocessing, and machine learning, with experience building AI-powered and scalable software solutions.

Experience

Associate Functional Consultant

ADP

Hyderabad, India

Jul 2024 – Nov 2024

- Collaborated with 5+ cross-functional teams to resolve production issues and improve application stability.
- Diagnosed and resolved 30+ production issues using SQL, REST APIs, and log analysis, reducing issue resolution time.
- Executed testing and validation for 20+ software fixes, ensuring successful production deployments.
- Analyzed application issues and worked with technical teams to identify and resolve software defects.

Member Technical

ADP

Hyderabad, India

Aug 2023 – Jul 2024

- Developed and maintained 10+ software modules using Java and SQL for enterprise applications.
- Built and integrated REST APIs supporting internal business workflows and database operations.
- Resolved 40+ production defects, improving application reliability and reducing support tickets.
- Participated in 50+ code reviews and followed Git-based development practices to maintain code quality.

Projects

AI-Powered Document Assistant(Ongoing)

[GitHub](#) 

- Building a production-oriented AI agent using Python, FastAPI, LlamaIndex, Qdrant, and LLM APIs to retrieve and generate context-aware responses from documents.
- Implementing PDF processing, document chunking, embeddings, and vector similarity search for efficient retrieval.
- Integrating rate limiting, throttling, concurrency control, retries, and error handling to improve application reliability and production readiness.
- Developing REST APIs with FastAPI and implemented logging and monitoring to support scalable deployment.
- Technologies: Python, FastAPI, LlamaIndex, Qdrant, LLM, RAG, Inngest, REST APIs

Photo / Video Sharing Web Application

[GitHub](#) 

- Built a social media backend using FastAPI with REST APIs for creating, retrieving, and deleting posts.
- Implemented JWT-based user authentication and protected API endpoints to secure user-specific operations.
- Integrated a database for persistent storage of user and post data, with Pydantic models for request and response handling.
- Implemented image and video uploads using ImageKit and developed a frontend to interact with the application.
- Technologies: Python, FastAPI, REST APIs, JWT, Pydantic, Database, ImageKit

Tic Tac Toe

[Live-demo](#) 

- Developed a full-stack Tic Tac Toe web application using Python, Flask, JavaScript, HTML, and CSS.
- Implemented 5+ backend APIs for move validation, game state management, and win/draw detection.
- Built interactive gameplay with JavaScript Fetch API, including score tracking, turn indicators, and reset functionality.
- Deployed the application on Render using Git/GitHub, demonstrating end-to-end web development.

Technical skills

Programming: C++, Python, Java, SQL, JavaScript

Tools & Cloud: Git, GitHub, VS Code, AWS

Concepts: Data Structures & Algorithms, Object-Oriented Programming, DBMS, SDLC, Data Preprocessing

Databases & AI: MySQL, Qdrant, Scikit-learn, Pandas, NumPy, Matplotlib, RAG, LLMs

Other: Pydantic, Streamlit, Inngest

Education

Rajiv Gandhi Proudlyogiki Vishwavidyalaya

B.Tech in Computer Science - CGPA 9.2

Achievements

- Solved 300+ Data Structures & Algorithms problems on LeetCode and GeeksforGeeks, strengthening algorithmic thinking and problem-solving skills.
- Recognized for strong collaboration, adaptability, and delivering high-quality solutions in fast-paced environments.