Husain Baghwala

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SUMMARY

Motivated entry-level Software Engineer with hands-on experience in Node.js, Python, REST API development, and proficiency in data structures and algorithms. Skilled in **GenAI** integration, including **LangChain**, **HuggingFace**, and Model Context Protocol (**MCP**). Eager to contribute technical expertise, innovative solutions, and support team growth in dynamic environments, while making a meaningful impact.

EXPERIENCE

AI Engineer ｜Walkover Web Solutions

June 2024 - Present, Indore

- Led backend development of gtwy.ai, enhancing advanced AI API support for conversation management and acting as a reliable SaaS assistant.
- Spearheaded optimization of **LLM** integration and backend API performance using **Node.js**, **Express.js**, and **FastAPI** for enhanced overall functionality.
- Designed and implemented robust APIs for **chatbot** and playground systems, leveraging Pydantic validation and supporting multiple AI-driven models.
- Managed scalable data storage solutions with **MongoDB** for LLM configurations and **PostgreSQL** for tracking complete chat history, costs, and analytics.
- Enabled dynamic function-calling capabilities in chatbot APIs, improving user interaction, **orchestration** model handling, and operational efficiency.
- Developed automated database migration scripts and implemented linting tools, optimizing performance and ensuring seamless API interactions.
- Integrated **GenAI** features using **LangChain** workflows, **HuggingFace** models, and **Model Context Protocol** (MCP) to expand critical API capabilities.
- Implemented **Retrieval-Augmented Generation** (RAG) pipelines, fine-tuning prompt workflows, and building **AI agents** with tool interaction and **reasoning**.
- Developed and deployed tailored AI agents, optimizing business operations using prompt engineering and generative API services for better efficiency.

Software Engineer Intern ｜Walkover Web Solutions

January 2024 - May 2024, Indore

- Mastered sophisticated **Git** features and implemented branching strategies, contributing to a 15% increase in codebase efficiency using **GitHub**.
- Assisted in developing and debugging a new feature, boosting user engagement by 20% using **Node.js** and **Python** backend.
- Refactored project architecture from Node.js to Python using FastAPI, achieving a 25% improvement in LLM integration efficiency.

EDUCATION

B.Tech Computer Science ｜Medi-Caps University

8.8, Indore, 2024

High School ｜New Digamber Public School

80%, Indore, 2020

SKILLS

Languages: C | C++ | Node Js | Python | JavaScript | SQL

Frameworks/Libraries: FastAPI ｜Flask | OpenCV | Pandas | NumPy

Skills: Data Structures | Algorithms | GIT | Prompt Engineering

Tools: Github | PyCharm | Cursor | Visual Studio Code | Jupyter Notebook | Postman

PROJECTS

AI Screening Tool

- Created a flexible interview tool backend in Python, employing OpenAI's GPT-4o API for generating personalized questions tailored to various skillsets.
- Designed and executed an AI-based tool for comprehensive analysis of communication in real-time across various transcripts.
- Architected a high-performance API framework in Python/FastApi for secure, concurrent interview management and audio processing.

ACHIEVEMENTS & CERTIFICATES

1st rank among 1,807 students on the GeeksForGeeks platform (university ranking).

Ranked in the top 19% globally on LeetCode, demonstrating advanced proficiency in problem-solving and coding challenges.

Maintained a 365+ day streak, solving significant number DSA questions on GeekForGeeks and LeetCode.

Postman API Fundamentals Student Expert