

Taranjeet Singh

Senior Software Engineer

AI Software Engineer with 2.5+ years of experience building Generative AI and backend applications using Python, Django, and React. Experienced in developing AI agents, advanced RAG pipelines, LangChain, LangGraph, and MCP integrations, along with scalable backend systems and REST APIs. Passionate about building AI solutions that simplify real-world business workflows.

✉ taranjeet.0815@gmail.com

📞 9999284429

🌐 taranjeet.com/

🐙 [github/taranjeet2001](https://github.com/taranjeet2001)

📍 New Delhi, India

🌐 linkedin.com/in/taranjeet—singh/

📄 leetcode.com/u/Taran2001/

WORK EXPERIENCE

Software Developer SPA InnoVision Pvt Ltd

03/2024 – Present

Noida, India

Achievements/Tasks

- Built **AmPower Jive**, an **open-source, marketplace-ready conversational ERP platform** that enables users to interact with enterprise systems using Generative AI.
- Engineered AI applications using **LangChain** and **LangGraph**, building multi-agent workflows, tool orchestration, memory, and autonomous task execution.
- Built advanced **RAG pipelines** using Hybrid Retrieval, Multi-Source Retrieval, Semantic Search, Metadata Filtering, and FAISS to improve response accuracy and retrieval quality.
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- Built enterprise **document intelligence solutions** using OCR, embeddings, and LLMs for semantic search, knowledge retrieval, and AI-assisted report generation.
- Architected scalable backend services using **Python, Django, REST APIs, MySQL, and SQLite**, delivering secure and maintainable enterprise applications.
- **Improved application performance** by optimizing SQL queries, APIs, and backend workflows, reducing report generation time by **60%** and improving database performance by **40%**.
- Built **responsive React applications** with reusable components and seamless API integrations for enterprise users.
- Implemented **secure authentication and deployment workflows** using OAuth 2.0, Docker, Git, and CI/CD to support reliable and scalable software delivery.
- Worked closely with **clients and cross-functional teams**, taking ownership of features from solution design through deployment and production support.

Software Developer Intern PAS Pvt Ltd

09/2023 – 02/2024

Achievements/Tasks

- Expanded scalable web applications using **Python, Django, JavaScript, and REST APIs**, implementing TTL-based caching, database optimization, and modular backend architecture to improve application performance.
- Built and maintained client solutions including **PAS Laundry** and **PAS Kitchen**, integrating the WhatsApp Business API, developing custom features, and delivering production-ready web applications.

EDUCATION

B.Tech CSE BBSBEC (PTU)

07/2019 – 06/2023

SKILLS

Python MCP Django Flask SQL
React C++ MySQL Postgresql Git
Data Structures System Design Docker
RAG REST API AWS Redis GenAI
LangChain LangGraph Advanced RAG
FAISS Celery Architecture

PERSONAL PROJECTS

Online Learning Portal [Link](#)

- Built a full-stack learning portal using **Django, SQLite, and Bootstrap** for teachers and students.
- Implemented **authentication, email verification, and role-based access** for secure user management.

HRMS [Link](#)

- Building an AI-driven HRMS platform using **React, Django, and MySQL** to simplify employee management, attendance, leave tracking, and day-to-day HR operations.
- Integrating **LLMs, LangChain, and AI agents** to deliver conversational HR support, intelligent policy search, employee self-service, and workflow automation.
- Developing **secure and scalable backend services** with JWT authentication, Celery, Redis, and REST APIs, ensuring reliable performance and efficient background task processing.

Healthcare Solutions [Link](#)

- Engineered an **AI-powered healthcare platform** using LangChain and Retrieval-Augmented Generation (RAG) to enable intelligent medical knowledge retrieval and chatbot interactions.
- Built the backend using **Django and SQLite**, integrating secure authentication and scalable APIs.

CERTIFICATIONS

Fullstack Development using Python | Cetpa Infotech

01/2023 – 07/2023

GenAI For Developers | IIT Patna

02/2026 – Present