

SURENDRAPALSINGH JHIOUT

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SUMMARY

Results-oriented Software Engineer with 2.9 years proficiency in Python, Neo4j, Django, and FastAPI. Optimized internal hiring workflows with Generative-AI technology. Achieved a remarkable 75% reduction in web crawling time by implementing a RetrievalQA pipeline with Langchain framework and LLM. Recognized for top-ranking projects, including an MNC Master Data Management solution using Knowledge Graph, optimizing customer data scalability.

EXPERIENCE

Zensar Technologies Ltd

Software Engineer

Apr 2022 – Nov 2023

- Executed multiple PoC projects, leveraging OpenAI technologies for streamlined document processing and improved hiring procedures.
- Successfully led the creation of a RetrievalQA pipeline with LangChain framework and LLM, enabling Q&A on various product weblinks and achieving a 75% reduction in web crawling time.
- Developed an AI-powered search engine integrating ChatGPT and LangChain agents, ensuring efficient responses from a multi-table database.
- Played a key role in implementing a Knowledge Graph solution utilizing Neo4j Graph Database, NED, NLP, Python, and Web Scraping. Collaborated with senior managers and research data scientists to integrate NLP and Knowledge Graph modules.
- Applied expertise in Neo4j Graph Database, Python, Data Wrangling, Web Scraping, and RestAPI to create a scalable customer data management solution

Jr. Software Engineer

Apr 2021 – Mar 2022

- Contributed to an AI-based immersive reality accelerator, achieving a 50% reduction in manual work and cost savings.
- Created a Knowledge Graph-based search engine for internal use, employing Python, Java, Django rest-framework, and Lucene Indexing.
- Co-created a versatile bot generation engine using Python, FastAPI, and Rasa, tailored for ITSM, FAQ, and information retrieval.

Project Trainee

Dec 2020 – Mar 2021

- Acquired hands-on experience in Java, Spring Boot, and Hibernate through comprehensive training.

EDUCATION

- Software Eng. Tech – Artificial Intelligence | Centennial College, Scarborough, ON Jan 2024 – Apr 2025
- Bachelors – Computer Engineering | Savitribai Phule Pune University, Pune, India Aug 2017 – Nov 2020

SKILLS

- Technical Proficiency:** Python, Java, Django, FastAPI, SQL, Neo4j (Cypher Query Language), MongoDB, OpenCV, Knowledge Graph, Lucene Indexing, API development, Web Scraping, Git, Pandas, Prompt Engineering, NLP.
- IDE's and Tools:** PyCharm, VS code, Maven, Jupyter Notebook, Google Colab, Neo4j-Desktop
- Analytical Skills:** Problem solving and decision-making skills.
- Collaborative Skills:** Project Coordination, Team Collaboration, Knowledge Sharing in Internal Research Meetings
- Adaptability & Learning:** Quick Learner, Continuous Learning, Adaptive to new technologies, Embracing new challenges and technologies.

CERTIFICATIONS & LICENCES

- Microsoft Certified: Azure AI Fundamentals (AI-900). ([LINK](#))
- Applied Data Science I: Scientific Computing & Python (WQU). ([LINK](#))
- Python for Data Science (IBM). ([LINK](#))

ACHIEVEMENTS

- AI-based immersive reality accelerator project secured a spot in the top 30 innovative solutions showcase in RPG innovation festival.
- Customer Registry Master Data Management project earned a place in the top 7 out of over 100 innovative solutions at Zensar. Additionally, it was selected for the top 30 showcases at the RPG Innovation Festival.
- Acknowledged for innovative, solution-oriented problem-solving and quick learning in the Customer Registry Master Data Management project.
- Presented several Generative-AI and LLM-based solutions in internal research meetings, leading to their selection for showcasing in multiple technical forums.