

RITESH KUMAR SINGH

Software Engineer — Data & Generative AI

+91 8619281447 - Portfolio - 2021pceitritesh044@poornima.org - <https://www.linkedin.com/in/ritesh-singh-8417a7229/> - <https://github.com/Ritesh8107>

PROFESSIONAL SUMMARY

- Detail-oriented Software Engineer with a strong foundation in full-stack development and a passion for Data Engineering and Generative AI. Proficient in Python, Java, and SQL, with hands-on experience developing data-driven applications and leveraging data analytics tools such as Power BI. Experience as a Prompt Engineer involved developing data-driven solutions and exploring LLM capabilities. Interested in applying skills in predictive modeling, data integration, and Agile methodologies to develop innovative solutions for Infosys.

EDUCATION

Poornima College of Engineering

Bachelor of Technology (B.Tech) in Information Technology

Jaipur, Rajasthan, India

Aug 2021 - May 2025 (Expected)

TECHNICAL SKILLS

Data, AI & ML: Python, Machine Learning, SQL, MongoDB, Power BI, Prompt Engineering, Predictive Modeling, Data Analytics

Languages: Java, Python, C/C++, SQL, JavaScript, COBOL

Backend & Cloud: .NET Core, REST APIs, Google Firebase, AWS, Microsoft Azure

Tools & Methodologies: Git, Agile, Unit Testing, SEO

WORK EXPERIENCE

Front-End Developer Intern

Requin Solutions PVT LTD, Jaipur, Rajasthan

Jun 2024 - Present

- Contributed to a team initiative to enhance performance by building reusable ReactJS components, resulting in a 35% reduction in application load times.
- Collaborated within an Agile environment with UI/UX designers, back-end engineers, and consultants to deliver high-quality software solutions.
- Integrated REST APIs to connect front-end components with back-end data sources, ensuring seamless data flow and application responsiveness.

Python Developer & Prompt Engineer (Intern)

Requin Solutions PVT LTD, Jaipur, Rajasthan

Jan 2024 - Jun 2024

- Engineered prompts and utilized Large Language Models (LLMs) to automate the generation of data-driven marketing reports, reducing manual effort by 40%.
- Developed and tested Proofs of Concept (POCs) using Python to validate new approaches for analyzing unstructured customer behavior data.
- Wrote programs to cleanse and integrate unstructured candidate profile data into structured formats for analysis, improving the efficiency of the screening process.
- Assisted in developing solutions leveraging Gen AI capabilities for SEO content generation and digital campaign performance analysis, improving engagement by 25%.

ACADEMIC PROJECTS

- E-Commerce Platform:** Designed and implemented a Firebase-backed data schema to manage user profiles, product catalogs, and over 500,000 transaction records. Engineered REST APIs for handling real-time data flow, ensuring data integrity for cart and payment functionality. [GitHub](#)
- Attendance Management System:** Implemented and validated a predictive model using ML algorithms to automate data validation, achieving 98% accuracy. Built a real-time data processing system using Firebase that reduced manual errors by 90% and improved reporting efficiency. [GitHub](#)

CERTIFICATIONS

- Python for Everybody Specialization** – Coursera (Completed 2024). Offered by University of Michigan.
- Full Stack Web Development Bootcamp** – Coursera (Expected 2025). Covered MERN stack, SQL, and CI/CD.

PROFESSIONAL DEVELOPMENT

- Demonstrating a growth mindset by actively exploring advanced concepts in Large Language Models (LLMs), including techniques for code translation and refactoring.
- Currently learning about Big Data architectures and enterprise search platforms like Elasticsearch to enhance data engineering capabilities.