Vijay Raghuwanshi

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Software Developer with 3+ years of experience building reliable, scalable systems and solving tough technical problems. Skilled at creating efficient microservices, improving system performance, and automating workflows. Proficient in Agile methodologies. Quick to learn new technologies and deliver high-quality solutions that make an impact.

Experience

○ **ClearTrail Technologies Pvt Ltd** — Indore, India

- **Software Engineer** — **July 2024 – Present**
  · Designed and implemented a scalable **CDR/IPDR Big Data processing system**, generating and executing **1000+ dynamic pipelines daily** to process over **25 TB of data per day**. Created both HLD and LLD for the system and optimized **Spark SQL queries** for efficient large-scale analytics.
  · Developed an AI-powered natural language interface for **Elasticsearch**, leveraging LLMs to enable end-users to query and analyze data conversationally, enhancing accessibility for non-technical stakeholders.
  · Spearheaded the development of a cybersecurity product, enhancing backend services for seamless integration and optimizing PostgreSQL queries to reduce lookup times from **15-22 seconds to under 1 second** for a 32-million-row table.
  · Designed and implemented an IP Reputation API service capable of handling **1Gbps live traffic capture**, utilizing multithreading to enable parallel host-pair extraction and reputation checks for high-performance processing.
  · Automated CI/CD pipelines using Jenkins and Docker, improving deployment speed by **40%** and developing scripts for automated software deployment, database migrations, and infrastructure as code (IaC).
  · Ensured high-quality code by achieving zero defects in static code analysis, strictly adhering to industry-standard coding practices, and minimizing technical debt to deliver reliable and maintainable software solutions.

- **Associate Software Engineer** — **May 2022 – June 2024**
  · Developed OSINT REST APIs utilizing advanced web scraping techniques, headless browsers, and proxy-based solutions with multi-session handling mechanisms to overcome rate limits and ensure robust data extraction.
  · Designed and deployed scalable microservices optimized for automation workflows. Leveraged Docker containerization to improve performance and streamline distributed system operations.
  · Demonstrated proficiency in asynchronous programming, enhancing concurrency processing for high-volume data integration and efficient execution of scraping and API-driven workflows.

Technical Skills

Backend Development & DevOps: Python, Java (Core, Collections, Spring Boot, JDBC, Lombok, Hibernate), FastAPI, Flask, Django, Docker, Jenkins, Git, Airflow, Bash
Big Data & Streaming Analytics: Apache Spark, PySpark, Spark SQL, Kafka, HDFS, PostgreSQL, MongoDB, Elasticsearch, Solr
AI & Data Science: LLMs, LangChain, RAG, Transformers, Pandas, Gradio, Pydantic-ai, MCP , N8N

Education

○ **Bachelor of Technology (Electrical & Electronics Engg)** — Aug 2018 - Jul 2021
Millennium Institute of Technology & Science, Bhopal — 7.59 CGPA

Certifications & Awards

- **Ideathon 2024 Award** - **2nd Prize Worth 30,000 INR**
  Recognized for designing an ultra-portable network traffic monitoring solution, **LightSabre on Laptop**, showcasing expertise in cybersecurity.

- **STAR of the Month**: Awarded for demonstrating ownership in implementing a complex Controller service in Light-Sabre (March) and for dedication in supporting **SnapChat** and **FlightRadar** integrations (September).

- **STAR of the Quarter**: Recognized for key contributions to WebTrail onboarding and feature development.