

# 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

- 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.
- Created and maintained detailed API documentation using Swagger UI and Markdown, ensuring clarity, consistency, and accessibility for seamless team collaboration and effective knowledge sharing.
- Engineered Big Data pipelines for **CDR/IPDR analysis**, integrating sources such as Kafka, HDFS, and Parquet. Delivered scalable and fault-tolerant Spark/PySpark workflows for near real-time analytics on telecom datasets.
- 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.

#### - 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, FastAPI, Flask, Django, Docker, Jenkins, Git, Airflow, Bash

**Big Data & Streaming Analytics:** Apache Spark, PySpark, 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)

Millennium Institute of Technology & Science, Bhopal

Aug 2018 - Jul 2021

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 (March 2023 & September 2022):

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 (October - December 2022):

Recognized for key contributions to WebTrail onboarding and feature development.