

# Vijay Raghuwanshi

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Software Developer with 3+ years of experience designing and scaling backend systems, distributed data platforms, and cloud-native services. Experienced in building high-throughput microservices, architecting event-driven and big data pipelines, and optimizing databases for performance and reliability at scale. Strong foundation in system design, database architecture, CI/CD automation, containerization, and Kubernetes-based deployments. Proven ability to deliver resilient, production-grade systems, collaborate across teams, and drive measurable improvements in performance, scalability.

## Experience

### ○ ClearTrail Technologies Pvt Ltd

Indore, India

#### - Software Engineer

July 2024 – Present

- Architected and built a CDR/IPDR big data analytics platform using PySpark, Kafka, PostgreSQL, running 1000+ dynamic ETL pipelines/day and processing 25+ TB/day.
- Achieved 3–10x performance improvements through Spark SQL and PostgreSQL query tuning on billion-row datasets.
- Designed and automated end-to-end ingestion and transformation pipelines using Airflow, improving SLA compliance and reducing manual intervention.
- Containerized and deployed services with Docker, Jenkins, and recently Kubernetes, reducing deployment failures by 40%.
- Enhanced platform reliability by integrating Prometheus + Grafana dashboards, reducing incident resolution time by 35%.
- Built an LLM-powered natural language query interface over Elasticsearch enabling conversational search for non-technical teams.
- Implemented robust data validation + reconciliation frameworks ensuring accuracy across ingestion, processing, and analytics layers.
- Improved distributed job fault-tolerance through retry logic, deduplication, and checkpointing in Spark workflows.

#### - Associate Software Engineer

May 2022 – June 2024

- Developed high-performance REST APIs and microservices using Python, FastAPI, and Flask for OSINT and telemetry platforms.
- Built scalable data extraction, enrichment, and asynchronous scraping services using proxy rotation and parallel processing.
- Designed event-driven components using Kafka for decoupled communication between data services.

## Technical Skills

**Languages & Backend:** Python, Java, Go, Gin, Spring Boot, FastAPI, Flask, Django, REST APIs, Bash

**Big Data:** Apache Spark, PySpark, Spark SQL, Kafka, Airflow, HDFS, ETL Pipelines, Distributed Processing

**Databases & Storage:** PostgreSQL (Query Optimization, Indexing, HA), MongoDB, DynamoDB, Elasticsearch, Solr

**Caching & Messaging:** Redis, Memcached, Kafka Streams, RabbitMQ

**DevOps & Cloud:** Docker, Kubernetes, Jenkins, Git, CI/CD Pipelines, Vagrant, AWS (EC2, S3, RDS), GCP

**Observability & Reliability:** Prometheus, Grafana, Logging, Monitoring, Alerting

**AI & Automation:** LLMs, Ollama, AutoGen, LangChain, RAG, Transformers, Pandas, Gradio, Pydantic-AI, MCP, N8N

## Education

### ○ Bachelor of Technology (Electrical & Electronics Engineering)

Aug 2018 – Jul 2021

Millennium Institute of Technology & Science, Bhopal

7.59 CGPA

## Certifications & Awards

- Secured 2nd Prize (Rs.30,000) in Ideathon 2024 for designing a portable network traffic monitoring system, LightSaber on Laptop. Received multiple STAR of the Month/Quarter Awards for significant contributions to LightSaber Controller Service, WebTrail, SnapChat, and FlightRadar modules.