

# Vijay Raghuvanshi

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Software Engineer with 4 years of experience building scalable backend and data-intensive applications across distributed and cloud-native environments. Specialized in big data processing platforms (CDR/IPDR), high-throughput microservices, and event-driven pipelines using Spark, Kafka, and PostgreSQL. Strong expertise in Linux systems, database architecture, CI/CD automation, and cluster and high-availability deployments. Proven ability to improve reliability, automate operations, and deliver production-grade systems in collaborative engineering environments.

## Experience

- ClearTrail Technologies Pvt Ltd Indore, India
  - Software Engineer July 2024 – Present
    - Designed and scaled a CDR/IPDR big data analytics platform using Spark, Kafka, and PostgreSQL, running 1000+ ETL pipelines daily and processing over 25 TB of telecom data per day across distributed clusters.
    - Optimized Spark SQL and PostgreSQL queries on billion-row datasets, achieving 3–10x performance gains and significantly reducing end-to-end data processing latency across large-scale distributed analytics workloads.
    - Built and automated end-to-end data ingestion and transformation workflows using Airflow, improving SLA adherence, strengthening pipeline reliability, and reducing manual overhead across distributed data processing jobs.
    - Containerized and deployed distributed services on Kubernetes clusters using Docker and Jenkins across Linux environments, reducing deployment failures by 40% and improving release stability across environments.
    - Deployed and maintained PostgreSQL and Solr in high-availability cluster configurations for large-scale analytics workloads, improving database resilience, failover capability, and overall platform uptime across environments.
    - Implemented end-to-end monitoring and observability using Prometheus and Grafana dashboards, reducing incident detection and resolution time by 35% and improving reliability of distributed data platform services.
    - Developed an LLM-powered natural language query interface over Elasticsearch, enabling conversational analytics for business users and improving accessibility to large-scale data insights across teams.
    - Improved large-scale data pipeline reliability by implementing fault-tolerant processing patterns, including retries, checkpointing, and deduplication, reducing job failures and ensuring consistent data processing.
  - Associate Software Engineer May 2022 – June 2024
    - Developed and maintained REST APIs and microservices using Python, FastAPI for OSINT, integrating proxy rotation, reusable sessions, and headless browser automation for reliable data collection.
    - Built scalable data extraction and enrichment pipelines using asynchronous processing, proxy orchestration, and parallel execution to handle high-volume OSINT and telemetry workloads with improved throughput and reliability.
    - Designed Kafka-based event-driven components enabling loosely coupled data services and real-time ingestion.
    - Supported production data services through monitoring, troubleshooting, debugging, and automation scripts, improving operational reliability and incident response efficiency.

## Technical Skills

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

**System Design:** Microservices, Event-Driven Architecture, Distributed Systems, API Design, Concurrency, Multithreading

**Big Data:** Spark, PySpark, Kafka, Airflow, HDFS, ETL, PostgreSQL, MySQL, MongoDB, DynamoDB, Elasticsearch, Redis

**Cloud, DevOps:** AWS, GCP, Docker, Kubernetes, Jenkins, CI/CD, Prometheus, Grafana, Linux Administration, System Monitoring

## 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, LightSabre on Laptop. Received multiple STAR of the Month/Quarter Awards for significant contributions to LightSabre Controller Service, WebTrail, SnapChat, and FlightRadar modules.