Vijay Raghuwanshi

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Software Developer with 3+ years of experience designing and building reliable, scalable backend systems. Developing high-performance **microservices**, optimizing system efficiency, and automating complex workflows. Strong foundation in **microservices architecture**, **CI/CD automation**, and **data-driven analytics**. Adept at working in Agile environments, quickly mastering new technologies, and delivering robust, high-quality software solutions that drive measurable impact.

Experience

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

- **Software Engineer**   July 2024 – Present
  - Designed and implemented a large-scale **CDR/IPDR data processing platform** using **PySpark, Kafka, and PostgreSQL**, executing over **1000 dynamic ETL pipelines daily** and processing **25+ TB of data per day**.
  - Optimized **Spark SQL** and PostgreSQL queries for complex joins and aggregations, reducing execution time from minutes to seconds on billion-row datasets.
  - Developed and maintained **Python ETL scripts** for automated data ingestion, validation, and transformation workflows integrated into CI/CD pipelines.
  - Automated deployments and job scheduling using **Jenkins, Docker, and Airflow**, improving release efficiency by **40%** while ensuring zero data downtime.
  - Collaborated with DevOps and infrastructure teams to resolve incidents and data processing issues within defined SLAs, ensuring data accuracy and service reliability.
  - Built an **AI-powered natural language interface** for Elasticsearch, leveraging LLMs to query massive datasets conversationally, improving usability for non-technical teams.
  - Implemented a robust **data validation and reconciliation framework** using PySpark to ensure end-to-end integrity across ingestion, transformation, and analytics layers.
  - Enhanced monitoring and alerting pipelines using **Prometheus + Grafana** to visualize job metrics, improving proactive issue detection and reducing incident resolution time by 35%.

- **Associate Software Engineer**   May 2022 – June 2024
  - Developed high-performance **data collection APIs** and ETL pipelines using Python and FastAPI, improving concurrency and reducing latency for OSINT and telemetry data.
  - Automated multi-source data extraction and enrichment workflows using asynchronous Python and proxy-based session handling for large-scale scraping.
  - Supported **data analytics and monitoring services**, implementing automation scripts to streamline incident resolution and service requests under defined SLAs.
  - Collaborated with cross-functional teams to deliver stable and scalable data processing components in agile sprints, following best practices in testing and version control.

Technical Skills

Programming & Backend Development: Python, Java, FastAPI, Flask, Django, REST APIs, Bash
Big Data & Analytics: Apache Spark, PySpark, Spark SQL, Kafka, Airflow, PostgreSQL, Elasticsearch, HDFS, MongoDB, Solr
DevOps & Cloud: Docker, Jenkins, Git, CI/CD, Kubernetes, Vagrant, AWS, GCP
AI & Automation: 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

- **Awards & Recognitions:** Secured **2nd Prize (*Rs.*30,000)** in **Ideathon 2024** for designing an ultra-portable network traffic monitoring solution, **LightSabre on Laptop**. Received multiple **STAR of the Month/Quarter Awards** for excellence in developing critical modules like **LightSabre Controller Service**, and for impactful contributions to **WebTrail**, **SnapChat**, and **FlightRadar** integrations.