Bandhan Singh

Data Engineer | parbhatbandhan@gmail.com | 6006246956 | LinkedIn | GitHub

SUMMARY

Data Engineer specializing in cloud data migration and pipeline orchestration. Hands-on experience in designing and automating large-scale ETL processes with PySpark, Azure Data Factory, and Databricks to enable robust data analytics and reporting. Skilled in optimizing performance and reducing costs for enterprise data systems.

SKILLS

Data Engineering: PySpark, Azure Data Factory (ADF), Azure Databricks, Airflow, Kafka, NiFi, Informatica

Cloud & Databases: Microsoft Azure, AWS, SAP HANA, Oracle, PostgreSQL, Delta Lake, Hive

Languages & Tools: SQL, Python, Git, Presto, Kudu, C++, NodeJS

WORK EXPERIENCE

Jio (Reliance Industries Ltd)

Navi Mumbai

Data Engineer

Jan 2024 - Present

- Migrated the ZPRC telecom analytics project from SAP HANA to Hive using PySpark, optimizing performance and reducing costs for a pipeline processing 200k+ records daily.
- Designed and implemented scalable ETL pipelines using Azure Data Factory (ADF) to ingest data from different SQL and NoSql datasources into Azure Data Lake Storage (ADLS).
- Engineered medallion architecture-based data processing frameworks in Azure Databricks, creating Delta Lake tables that ingest from ADLS and Kafka for both batch and real-time streaming data.
- Automated the migration of 7000 tables from multiple HDFS clusters to ADLS using Apache NiFi and Python, eliminating 40-50 days of manual effort and accelerating the enterprise cloud adoption.
- Migrated and validated billions of records using Informatica and PySpark, including reconciliation logic and integration with Kafka for real-time ingestion.
- Translated and developed complex stored procedures and views across SAP HANA and Oracle, and created Tableau-ready data sources for reporting and analytics teams.

Clerisy Solutions Pvt. Ltd.

Chandigarh

Software Engineer

Feb 2023 – Dec 2023

- Developed backend services for the Stayntouch hotel management platform (500+ hotels, 100k+ rooms) using LoopBack, Angular and PostgreSQL, implementing core data models and business logic for booking and authentication that supported significant platform growth.
- Engineered full-stack, data-intensive applications for Capexpert using Vue.js, Angular, and NestJS, building interactive dashboards and complex inventory management workflows.
- Built and optimized ETL processes, utilizing GCP's Document AI to automate extraction of unstructured data from documents into structured PostgreSQL tables.
- Improved data reliability and performance by designing efficient database schemas, creating indexes, and optimizing SQL queries, reducing key report generation times by 30%.

PERSONAL PROJECT

Geospatial Data Pipeline | GitHub:

Built an automated, cloud-native pipeline on AWS/Azure ingesting data from ACLED API and web sources. Engineered medallion architecture in Databricks with PySpark for ETL, and utilized BART/LLMs for ML-powered classification. Orchestrated with Databricks Workflows & GitHub Actions, storing results in Supabase(PostGIS) for visualization via FastAPI & React.

EDUCATION

B.Tech. (Computer Science and Engineering)

2019-2023 | 7.9 CGPA

I.K. Gujral Punjab Technical University