

Reza Muhammad Rizqullah Firdaus

Experienced Data Engineer with focus building end to end pipelines, data orchestration & data infrastructure

rezaamrf03@gmail.com
github.com/rezamrf
linkedin.com/in/rezamrf

EXPERIENCE

PT. TABEL DATA INFORMATIKA, Bandung, Indonesia — *Data Engineer*

FEBRUARY 2025 - PRESENT

- Architecting end-to-end Python ETL/ELT pipelines to ingest data from REST APIs and relational databases into centralized data lakes and warehouses.
- Executed zero-data-loss migrations from PostgreSQL to ClickHouse (Data Warehouse) and SQL Server (Data Mart), enhancing downstream query performance.
- Optimizing pipeline reliability by restructuring queries and managing database connection pooling to ensure high availability.
- Orchestrating complex automated data workflows using Kestra for job scheduling and task dependency management.
- Developed an incremental streaming ETL Proof of Concept (PoC) using Apache NiFi (MySQL to PostgreSQL), orchestrated seamlessly via Apache Airflow.
- Spearheaded Data Lakehouse R&D by implementing PyIceberg with PostgreSQL (catalog) and MinIO (storage) for end-to-end data operations.
- Assessed Dask for distributed processing to efficiently read Iceberg-generated Parquet files stored in MinIO.
- Managing on-premise Nutanix S3 data lakes with Delta Lake implementation for ACID transactions, schema evolution, and Time Travel capabilities.
- Prototyped Trino integrations with Python to enable high-performance, distributed SQL querying across disparate sources.
- Containerizing FastAPI applications and Python pipeline scripts using Docker to guarantee scalable and consistent deployments.
- Building custom REST API endpoints via FastAPI to automate data validation processes and facilitate internal database interactions.
- Programmed robust Python scripts to strictly monitor cross-pipeline data consistency and reliability.

SKILLS

Programming & API
Python, SQL, FastAPI

Data Orchestration
Kestra, Apache Airflow, Apache NiFi

Data Warehousing & Databases
Clickhouse, PostgreSQL, Oracle, SQL Server

Data Lake & Storage
Delta Lake, Apache Iceberg, MinIO, Nutanix Object Storage

Infrastructure & Processing
Docker, Trino, Dask

EDUCATION

Padjadjaran University
Bachelor's Degree in Public Administration
2017 - 2022
Bandung, Indonesia