BRIAN OTINA MAKAU

Big Data Engineer

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Nairobi, Kenya

PROFESSIONAL SUMMARY

Experienced and results-driven Data Engineer with a strong foundation in data modeling, analytics, and engineering. Proficient in designing and developing scalable data pipelines using tools like Python, Spark, SQL, and cloud platforms (AWS). Adept at implementing automation solutions that improve data quality and job efficiency.

PROJECTS

Crypto Currency Data Pipeline (Apache Kafka, Airflow, Docker, AWS3, Medallion Architecture)

⇒ 2025

- Ingested real time crypto data into S3 bucket using Apache Airflow.
- Processed and transformed data using SQL and Python in Snowflake.
- Loaded data into Snowflake after Medallion Architecture and created interactive dashboards with PowerBi.

Airflow Data Engineering Pipeline Orchestration (s3 to snowflake ETL)

量2025

- Ingest FX and product data from Amazon S3.
- Transform and load data into Snowflake using external stages and SQL scripts.
- Apache Airflow capabilities: XComs, Branching, Hooks, Trigger Rules, and Custom Operators.
- Ensure robust orchestration with task retries, conditional logic, and modular structure.

End-to-End Data Modernization (SQL Server Data Warehousing and Analytics)

= 2025

- Built a data ingestion pipeline to SQL Server (on-prem). Extracting, transforming, and loading data from source systems into the warehouse.
- Developed a Lakehouse architecture using SQL in SQL server (Bronze, Silver, Gold).
- Developing fact and dimension tables optimized for analytical queries.
- Creating SQL-based reports and dashboards for actionable insights.

EXPERIENCE

Personal End-to-End Data Engineering Projects

SELF

 Designing and implementing a production-grade data pipeline using Apache Kafka, Apache Airflow, Snowflake, and AWS services. Built realtime ingestion, transformation, and orchestration layers following the Medallion Architecture.

Self-Study and Upskilling

SELF

iii 01/2023 - Present

 Currently pursuing AWS Certified Data Engineer Associate while building personal projects using Snowflake, Python, and Apache Airflow.

SKILLS

Airflow	Amaz	zon S3	Apa	che	
Apache Kafka		Apache Spark		rk AWS	
AWS Services		Big Data		Databricks	
Docker	SQL	server	Git	GitHub	
Kafka	Microsoft Power BI		er BI	Python	
Pandas	PostgreSQL				
Commun	Prol	Problem Solving			
Snowflal	ke Si	QL			

PORTFOLIO & SOCIALS

My Portfolio

X

LinkedIn

GitHub

EDUCATION

Bachelor of Applied Statistics with Programming

Muranga University of Technology

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• Currently in Final Year

CERTIFICATIONS

AWS Certified Data Engineer – Associate (in progress)

Python Programming

Data Analysis with Python – cognitive skills powered by IBM

EXPERIENCE

Big Data Engineer Intern

Safra Data

- Automated data profiling and quality checks in Python, improving accuracy by 15% and reducing processing time by 25%
- Enhanced SQL queries and Airflow dags (bucketing, salting, partitioning, caching), leading to a 5% increase in job efficiency

Data Analyst

MultiChoice

- Achieved 40% reduction in average turnaround time via ETL pipeline automation
- Reduced refund processing time by 20% through data-driven strategies