

# BRIAN OTINA MAKAU

## DATA ENGINEER

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## PROFESSIONAL SUMMARY

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Big Data professional with 1.5 years of experience in data engineering and analysis, expert in Python programming and designing scalable data pipelines. Key achievements include a 10% reduction in average turnaround time through ETL pipeline automation and a 5% reduction in refund processing time via data-driven strategies. I am eager to contribute my data engineering and analytical skills will support your mission of driving innovation and excellence in IT services.

## EXPERIENCE

### SELF | 2022 - Present

#### Personal End-to-End Data Engineering Projects

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

### MultiChoice | 2023 - 2025

#### Data Analyst

- Achieved 10% reduction in average turnaround time via ETL pipeline automation.
- Reduced refund processing time by 5% through data-driven strategies.

### Safra Data | 5/2023 - 10/2023

#### Big Data Engineer Intern

- 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.

### SELF | 2022 - Present

#### Self-studying and upskilling

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

## PROJECTS ([click me](#) FOR MY PORTFOLIO WEBSITE)

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

2024

- 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 Power Bi.

### 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.

## **Airflow Data Engineering Pipeline Orchestration (s3 to snowflake ETL)**

2025

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

## **SKILLS**

- Data Engineering & ETL (Apache Airflow, Apache Kafka, CVS, JSON Medallion Architecture)
- Programming & Scripting (Python, SQL, Shell)
- Big Data & Distributed Systems (Apache Spark, Databricks)
- Data Modeling & Warehousing (Snowflake, Star-Schema)
- Cloud & Infrastructure (AWS, Docker)
- Orchestration & Workflow Management (Apache Airflow)
- Databases (Postgres, SQL server)
- Visualization & BI (Power Bi)
- Soft Skills & Practices (Documentation, stakeholders communication, problem-solving)

## **EDUCATION**

**Bachelor of Science in Applied Statistics with Programming | 2021-2024**

Murang'a University of Technology, Murang'a

## **CERTIFICATIONS**

- Data Analysis with Python - cognitive skills powered by IBM
- Python Programming
- AWS Certified Data Engineer – Associate (in progress)

## **PORTFOLIO AND SOCIALS**

- [My Portfolio](#)
- [Linked In](#)
- [GitHub](#)
- [X](#)