

# Michael Muolokwu

## Data Engineer | Data Scientist

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### Summary

Google Cloud certified Data Engineer with over 4 years of experience in building and refining data-driven systems that bring complex ideas to life. Every day, I work on designing, deploying and optimizing pipelines, models, and architectures that extract insights and drive decisions internally and on client-facing projects. I thrive on breaking down intricate data challenges, solving tough debugging issues, and transforming raw information into actionable intelligence. I bring to work a relentless drive to create impact and a good team spirit to analyze, create, and innovate that fuels me, and I'm always ready to push boundaries, and shape the future of data-driven technology.

### Skills and Technologies

- **Programming Languages:** SQL, Python, R, Golang
- **Cloud Services:** AWS, GCP, dbt
- **Orchestration Tools:** Apache Airflow, Prefect, PostgreSQL, Github Actions, GNU Make, CI/CD
- **Databases/Datawarehouses:** MySQL, PostgresSQL, Redshift, Bigquery, Databricks, MongoDB
- **Big Data:** Spark, Hive, Hadoop, Kafka

### Education

- University of British Columbia

MS in Data Science

Sept 2024 – June 2025

  - **Coursework:** Machine Learning, Data Structures and Algorithm, Deep Learning, Cloud Infrastructure
- University of Nigeria

BEng in Electronics Engineering

Oct 2015 – June 2020

  - GPA: 4.70/5.0, Best Graduating Student in the Department
  - **Coursework:** Digital Electronics, Communication Systems, Control Engineering, Software Engineering

### Experience

- Data Engineer

Luminr

London, UK

Nov 2023 – Present

  - Developed and implemented a real-time processing pipeline using GCP's Pub/Sub and Dataflow, enabling the unboarding of new clients in real-time.
  - Engineered and optimized over 5 ETL data pipelines on Airflow utilizing Python and SQL, leading to a 40% reduction in data processing time while ensuring seamless integration with GCP services for real-time analytics.
  - Conducted comprehensive research on security frameworks, resulting in the implementation of best practices that decreased unauthorized access incidents by 70%, safeguarding sensitive information across a database exceeding 500GB.
  - Led a team training session on emerging ELT frameworks, including dbt, enhancing the team's ability to evaluate and select the most effective tools for each project.
  - Optimized SQL queries, making it more cost efficient by reducing the amount of data scanned in the data-warehouse and also reducing the query runtime by 30%
  - Developed comprehensive documentation and automated testing frameworks for over 10 data workflows on Airflow, which hastened unboarding by 60% and minimized downtime across all systems.
  - Optimized data quality protocols across a centralized data warehouse by developing automated validation scripts, leading to a 40% reduction in data discrepancies and enhancing reporting accuracy for over 150 business units.
- Data Scientist

health4everyone

Remote

Jan 2022 – Nov 2023

  - Collaborated with cross-functional teams to define clear objectives and requirements, translating business needs into actionable machine-learning solutions.
  - Collaborated with DevOps and infrastructure teams to ensure seamless integration of machine learning solutions with existing production systems increasing project completion time by 20%.
  - Conducted A/B testing on survey data using bootstrapping, to provide statistical evidence for Stakeholder meetings.
  - Conducted comprehensive code reviews for a team of 5 data scientists, enhancing adherence to best practices and reducing code-related errors by 40%, streamlining project delivery timelines.

### Awards

- UK IT Industry Awards finalists 2024

Personal Excellence, Engineer of the Year

Engineer of the Year

Nov 2024
- Mastercard Scholarship

Mastercard Scholarship

Mar 2024

### Projects

- Currency Converter

github.com/Converter

  - Developed a mid-market currency converter API using FastAPI. It had three different routes; Convert, Currency, and History
  - All endpoints were protected with API key auth used in logging in.
  - MongoDB was used in caching data history from the user and storing it in a cluster
- Audio Tagging System

github.com/audio

  - Predicted audio classes using different models implemented using Keras. Models included a One-dimensional convolution, Two-dimensional convolution, and RNNs
  - Tools Used: Python, Keras

### Certifications

- AWS Certified Cloud Practitioner

July 2022
- dbt

Jan 2023
- Professional Data Engineer

Dec 2024
- AWS ML Engineer Nanodegree

Nov 2024
- Machine Learning, Stanford

Oct 2019