

# 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

<b>University of British Columbia</b> <i>MS in Data Science</i>	<i>Sept 2024 – June 2025</i>
◦ <b>Coursework:</b> Machine Learning, Data Structures and Algorithm, Deep Learning, Cloud Infrastructure	
<b>University of Nigeria</b> <i>BEng in Electronics Engineering</i>	<i>Oct 2015 – June 2020</i>
◦ GPA: 4.70/5.0, Best Graduating Student in the Department	
◦ <b>Coursework:</b> Digital Electronics, Communication Systems, Control Engineering, Software Engineering	

### Experience

<b>Data Engineer</b> <i>Luminr</i>	<i>London, UK</i> <i>Nov 2023 – Present</i>
<ul style="list-style-type: none"><li>◦ Developed and implemented a real-time processing pipeline using GCP's Pub/Sub and Dataflow, enabling the unboarding of new clients in real-time.</li><li>◦ 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.</li><li>◦ 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.</li><li>◦ 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.</li><li>◦ 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%</li><li>◦ 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.</li><li>◦ 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.</li></ul>	
<b>Data Scientist</b> <i>health4everyone</i>	<i>Remote</i> <i>Jan 2022 – Nov 2023</i>
<ul style="list-style-type: none"><li>◦ Collaborated with cross-functional teams to define clear objectives and requirements, translating business needs into actionable machine-learning solutions.</li><li>◦ Collaborated with DevOps and infrastructure teams to ensure seamless integration of machine learning solutions with existing production systems increasing project completion time by 20%.</li><li>◦ Conducted A/B testing on survey data using bootstrapping, to provide statistical evidence for Stakeholder meetings.</li><li>◦ 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.</li></ul>	

### Awards

<b>UK IT Industry Awards finalists 2024</b> Personal Excellence, Engineer of the Year <a href="#">Engineer of the Year</a> 🔗	<i>Nov 2024</i>
<b>Mastercard Scholarship</b> <a href="#">Mastercard Scholarship</a> 🔗	<i>Mar 2024</i>

### Projects

<b>Currency Converter</b>	<a href="#">github.com/Converter</a> 🔗
<ul style="list-style-type: none"><li>◦ Developed a mid-market currency converter API using FastAPI. It had three different routes; Convert, Currency, and History</li><li>◦ All endpoints were protected with API key auth used in logging in.</li><li>◦ MongoDB was used in caching data history from the user and storing it in a cluster</li></ul>	
<b>Audio Tagging System</b>	<a href="#">github.com/audio</a> 🔗
<ul style="list-style-type: none"><li>◦ Predicted audio classes using different models implemented using Keras. Models included a One-dimensional convolution, Two-dimensional convolution, and RNNs</li><li>◦ Tools Used: Python, Keras</li></ul>	

### Certifications

<a href="#">AWS Certified Cloud Practitioner</a> 🔗	<i>July 2022</i>
<a href="#">dbt</a> 🔗	<i>Jan 2023</i>
<a href="#">Professional Data Engineer</a> 🔗	<i>Dec 2024</i>
<a href="#">AWS ML Engineer Nanodegree</a> 🔗	<i>Nov 2024</i>
<a href="#">Machine Learning, Stanford</a>	<i>Oct 2019</i>