

MICHAEL TUNWASHE

FullStack Data Scientist

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Professional Summary

FullStack Data Scientist with 2 years of Python experience building end-to-end data solutions from ETL pipeline development to model deployment. Proficient in data engineering, Machine-Learning model development, automated workflows, and analytics systems. Combines solid technical skills in data processing with full-stack development capabilities for practical data-driven solutions.

Technical Skills

Data Engineering & ML: Python (pandas, NumPy, scikit-learn, SQLAlchemy), ETL Pipeline Development, SQL (PostgreSQL, MySQL), Statistical Analysis & Applied ML, Docker, Data Visualization (Plotly, Metabase, Dash)

Development & Deployment: React, TypeScript, Next.js, FastAPI, REST APIs, Git, Basic CI/CD

Key Projects

Financial News Classifier

Sep 2025 -- Nov 2025

Production ML Pipeline

- Built and deployed NLP model achieving 93% accuracy for financial news sentiment classification
- Implemented end-to-end ML pipeline with Python, TensorFlow, and scikit-learn
- Designed containerized microservices architecture using Docker for scalable deployment
- Created automated model serving system with FastAPI for real-time predictions
- Integrated with clean, interactive web interface for stakeholder access

Brazilian Retail Intelligence System (BRIS)

Sep 2025 -- Nov 2025

End-to-End Data Engineering & BI Solution

- Architected a modular microservices system for retail analytics using FastAPI and Docker
- Implemented dual-environment ETL pipelines with SQLAlchemy (local) and Supabase (production)
- Developed 'OrderGen', a synthetic data engine using Markov Chains for NLP-based review generation
- Built a modern frontend dashboard with React, TypeScript, and Vite for visualizing revenue and logistics
- Ensured production readiness with row-level security, automated schema migrations, and async background tasks

Mini Data Manim

Aug 2025 -- Sep 2025

Interactive Data Visualization Platform

- Developed browser-based data visualization tool for creating animated statistics and insights
- Built modular architecture with React, TypeScript, and custom animation libraries
- Implemented data processing pipeline for seamless chart generation and animation
- Designed intuitive interface enabling non-technical users to create professional visualizations
- Optimized rendering performance for smooth real-time animation playback

Naija Economic Dashboard

Feb 2025

Real-time Economic Data Visualization

- Developed an interactive dashboard tracking Nigerian economic indicators using Plotly Dash
- Integrated Central Bank of Nigeria APIs for real-time data on inflation, exchange rates, and GDP
- Implemented caching mechanisms to optimize API usage and improve load times
- Designed a responsive layout using Dash Bootstrap Components for accessible data presentation

Professional Experience

Data Analyst Intern

Aug 2025 - Nov 2025

HNG Tech

- Performed data cleaning, transformation, and exploratory analysis on business datasets
- Created SQL queries for reporting
- Built business intelligence reports using Metabase

Education

BSc Mathematics

2024 -- 2028

University of Lagos

- Coursework: Statistics, Probability, Linear Algebra, Calculus