

CHINEDUM EMMANUEL SUNDAY

Data Engineer | Python · SQL · Airflow · dbt · BigQuery · GCP · AWS · Docker

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PROFESSIONAL SUMMARY

Data Engineer (B.Sc. Statistics) building data systems end to end: multi-source ingestion, Apache Airflow orchestration, tested dbt transformations, dimensional warehousing in BigQuery, and self-service dashboards — deployed across GCP and AWS with Docker and Git. Operates a live production pipeline for financial-markets data held to a 3–5 minute SLA, with monitoring, validation, and automatic failure recovery. Strong finance/FX domain background, real client-delivery experience from requirements through support, and a track record of shipping complete systems solo in fully remote teams. Available immediately for remote roles (WAT, UTC+1 — full UK/EU overlap, strong US East overlap).

TECHNICAL SKILLS

- **Languages:** Python (Pandas, requests, bulk loading, automation), SQL (window functions, CTEs, query optimization), JavaScript/Node.js
- **Orchestration & Transformation:** Apache Airflow (multi-task DAGs, scheduling, retries, monitoring), dbt (layered models, tests, documentation), idempotent incremental MERGE loads
- **Warehousing & Databases:** BigQuery (schema design, optimization), PostgreSQL (operational schema design, migrations), dimensional modeling (star schema), data dictionaries
- **Cloud & DevOps:** GCP (BigQuery, Cloud Storage, IAM), AWS (EC2, S3), Docker, Git/GitHub, Linux administration
- **Integration & BI:** REST API ingestion (auth, pagination, rate limits), RSS/webhook sources, LLM API integration (Claude API in production), Metabase dashboards and metric definition
- **Domain & Extras:** FX/remittance and financial-markets data, statistical analysis (B.Sc. Statistics), blockchain data (Canton Network/DAML — five full-stack apps built on Canton LocalNet)

DATA ENGINEERING PROJECTS & EXPERIENCE

Due FX Analytics Platform — End-to-End Remittance Analytics Pipeline

2026

PostgreSQL · Apache Airflow · dbt · BigQuery · Metabase · Docker

- Designed and built a complete analytics platform solo: operational PostgreSQL schema, Python data generation and bulk loading, Airflow-orchestrated ETL to Cloud Storage and BigQuery, layered dbt models with data quality tests, and Metabase dashboards for business reporting.
- Designed both sides of the modeling divide — normalized operational schema for transactional integrity, denormalized star schema for analytics — with metrics defined once in the warehouse layer for consistent reporting.
- Ran the whole build on GCP within a deliberately tight budget, optimizing queries and load patterns for cost and performance.

MTL News Desk — Live Financial Markets Pipeline (Production)

2025 – Present

Python · AWS EC2 · REST/RSS APIs · Claude API · PostgreSQL

- Built and operate a fully automated pipeline on AWS EC2 ingesting forex and economic news from multiple sources, classifying content via the Claude API, and publishing to mytradingland.com unattended — no human approval step.
- Hold a 3–5 minute end-to-end SLA for Tier 1 economic events (NFP, CPI, FOMC, ECB, BoJ) through monitoring, deduplication, validation, and automatic failure recovery; sole owner and on-call for the system.

Mathaino — Client EdTech Platform (End-to-End Delivery)

2025 – 2026

Node.js/Express · PostgreSQL · React Native · Firebase

- Gathered requirements directly from an external client, then designed and delivered the production system — PostgreSQL schema and migrations, REST API backend, and third-party integrations — through deployment and ongoing support.

DataTel — Automated Telecom ETL Pipeline (Capstone, AltSchool Africa)

2026

Apache Airflow · BigQuery · PostgreSQL · Docker

- Engineered a 24-task Airflow DAG ingesting ~101,000 telecom records from raw sources into a BigQuery warehouse, containerized with Docker.

- Implemented idempotent MERGE loads and data validation checks, ensuring accurate, re-runnable loads with no duplicates.

Multi-Source API ETL Pipelines

2024 – 2025

Python · REST APIs · PostgreSQL

- Built Python ETL pipelines collecting, cleaning, and transforming data from cryptocurrency market, weather, YouTube, and IMDB APIs into structured relational stores for analysis.

PROFESSIONAL EXPERIENCE

News Editor — MyTradingLand (MTL)

2025 – Present

- Own time-sensitive financial news coverage for a trading community; defined and formalized the news desk SLA and automated the workflow end-to-end (see MTL News Desk above).
- Collaborate remotely with community managers and stakeholders, translating editorial requirements into automated data workflows.

Community Moderator — Cantor8 (Canton Network)

2024 – Present

- Support community operations for a Canton Network validator and infrastructure provider; communicate technical concepts clearly to a broad audience.

EDUCATION & CERTIFICATIONS

Professional Diploma in Data Engineering — AltSchool Africa

2026

B.Sc. Statistics — University of Nigeria, Nsukka

DataCamp Professional Data Engineer Certification

ID: DE0013787697060