

GEORGE IFI

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Portfolio: https://georgeifi.github.io/George_portfolio/

PROFESSIONAL SUMMARY

Data Engineer with over 4 years of experience developing secure, scalable, and cost-efficient data platforms on Azure and AWS. Skilled in designing end-to-end ELT/ETL pipelines, Lakehouse architectures, real-time processing, and cloud optimisation. Proficient in PySpark, Databricks, Delta Lake, Terraform IaC, SQL, and enterprise data governance. Demonstrates a proven track record of reducing compute costs (£40k+ annually), enhancing pipeline performance, and supporting data-driven decision-making through high-quality analytical models and dashboards. Earlier background includes 5 years of remote IT project roles focused on cloud migration, infrastructure modernisation, and enterprise software delivery, strengthening stakeholder management, cross-functional leadership, and technical delivery discipline.

CORE SKILLS & TECHNOLOGIES

Data Engineering & Processing

Databricks (Azure & AWS), PySpark, Delta Lake, Unity Catalog, Structured Streaming, Airbyte, REST API ingestion

Cloud Platforms & Infrastructure-as-Code

Azure (ADLS Gen2, ADF, Synapse, Key Vault, Private Endpoints), AWS (S3, Glue, Athena, Lake Formation), Terraform, Docker, GitHub Actions

Orchestration & Streaming

Apache Airflow (DAGs), Event-driven architectures, Kafka, Airbyte Orchestrations

Data Warehousing & Storage

Snowflake, Amazon Redshift, Google Big Query, SQL Server, PostgreSQL, MySQL, Parquet/Delta formats

Programming & Analytics

Python, SQL, Java, Power BI, Grafana, Excel

Governance, Quality, and Performance

Data Quality frameworks, Schema enforcement, Pipeline optimisation, Cost optimisation, CI/CD for data workload.

PROFESSIONAL EXPERIENCE

Data Engineer Consultant — 10Alytics, Manchester, UK
Jan 2024 – Present.

- Built scalable ETL/ELT pipelines in PySpark & Python, accelerating end-to-end processing by 30% and improving reporting frequency.
- Enabled self-service analytics using Power BI and Grafana, reducing ad-hoc reporting workload and improving stakeholder satisfaction.
- Reduced Snowflake compute spend by **£10k per quarter** through warehouse right-sizing, auto-suspend policies, clustering keys, result caching, and serverless task optimisation.
- Tuned SQL Server and PostgreSQL using indexing, partitioning, and query-plan optimisation, yielding **40% faster read/write performance**.
- Designed ADF to ADLS Gen2 pipelines, triggering Databricks jobs to Delta Lake, lowering pipeline latency by **35%**.
- Strengthened governance via Unity Catalog and Azure Key Vault, improving access auditing and reducing review time.
- Implemented Synapse serverless SQL views over Delta/Parquet, reducing BI data preparation effort by **40%**.
- Secured data flows via Private Endpoints and VNet-integrated Databricks, eliminating public exposure for sensitive workloads.

Data Engineer — Greater Women Initiative for Health & Rights (GWIHR), Nigeria
Jul 2019 – Jul 2023

- Automated ETL pipelines with Python, Airflow, reducing manual intervention by **30%**.
- Developed data validation and profiling frameworks to improve the reliability of reporting datasets.
- Designed KPIs and interactive dashboards (Power BI, Grafana) supporting donor reporting and public-health decisions.
- Delivered SQL-driven analytics and standardised data models to support weekly programme reviews.
- Led Data Quality Assurance (DQA) and trained field teams in data governance and reporting best practices.

Data Analyst / Monitoring & Evaluation Officer

Greater Women Initiative for Health and Rights (GWIHR), Nigeria
Mar 2018 – Apr 2019.

- Analysed HIV programme data to identify and reduce **loss-to-follow-up (LTFU)**, improve **ARV retention**, and track **client referrals and appointment adherence** across multiple local government areas.

- Designed and maintained **SQL queries** to extract, clean, and aggregate client-level data (appointments, treatment status, referrals) from programme databases for routine reporting and decision-making.
- Built **Power BI and Excel dashboards** to monitor key indicators, including retention rates, missed appointments, referral completion, and monthly cohort performance.
- Performed **trend and variance analysis** on client follow-up data to identify service delivery gaps and flag high-risk clients for early intervention by field teams.
- Supported programme teams by translating analytical findings into **actionable insights**, contributing to improved follow-up processes and reduced client attrition.
- Conducted **data quality assurance (DQA)**, including validation, deduplication, and consistency checks across facilities and reporting periods.
- Collaborated with field officers and programme managers to align data outputs with **donor reporting requirements** and national M&E indicators.

Freelance Technical Project Manager (Data & Cloud Platforms)
Tech Innovators Inc. San Francisco, USA (Contract, Remote)
Jan 2017 – Feb 2018

- Led delivery of cloud-based data and application platforms, coordinating engineers and analysts across software, infrastructure, and security domains.
- Managed data-related workstreams within cloud migration projects, focusing on data storage, access controls, and system integration.
- Defined technical requirements, milestones, and acceptance criteria in collaboration with engineers for analytics and platform components.
- Streamlined development with Agile Scrum workflows, reducing release cycles by 25%.
- Produced technical status reports and KPI dashboards to inform executive decision-making and risk management.

Freelance Technical Project Coordinator (Data & Infrastructure Systems)
NextWave Solutions — Chicago, USA (Contract, Remote)
Mar 2014 – Dec 2016

- Supported delivery of **IT infrastructure and data-platform initiatives**, including server upgrades and data-centre consolidation, impacting enterprise data storage and system availability.
- Coordinated **data-related infrastructure components**, working with engineers to track dependencies between servers, databases, and application workloads.
- Managed delivery schedules, resource allocation, and cost tracking for multi-vendor technical projects, ensuring on-time and within-budget execution.
- Worked with vendors to support hardware, database, and software integrations, ensuring compatibility and minimal service disruption.
- Automated project reporting and operational metrics using spreadsheets and basic scripting, reducing manual reporting effort by approximately 40%.

EDUCATION

MSc Environmental Management (with Advanced Practice), Teesside University, Middlesbrough, UK | 2023 – 2025.

B.Sc. Environmental Management

Chukwuemeka Odumegwu Ojukwu University, Nigeria | 2013 – 2017.