# Emmanuel Awa

**Data Solutions Developer | Data Engineer**

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Results-oriented Data Solutions Developer/Data Engineer with 5+ years in fintech and banking. Proficient in data analysis and engineering, building robust solutions to boost business performance and system reliability. Expertise in data transformation, automation, and predictive modeling, driving efficiency and data-driven decisions. Skilled in SQL, Python, Power BI, and related tools, with strong foundations in data engineering and business intelligence for anomaly detection, reporting, and enterprise monitoring.

## WORK EXPERIENCE

### Lead Observability Engineer/Business Intelligence

*Sterling Bank, Lagos, Nigeria*                July 2024 – Present

Sterling Bank is a leading full-service Nigerian commercial bank providing financial services across retail, corporate, investment, and digital banking. Recognized for its strong focus on technology-driven solutions, financial inclusion, and customer-centric products.

- Designed & deployed enterprise-wide monitoring solutions, improving system uptime and reducing incident resolution time.
- Provided technical leadership and mentorship to a team of engineers and analysts, fostering a culture of continuous improvement in observability and analytics.
- Spearheaded the development of real-time metrics pipelines using SQL and Python, enabling faster insights and supporting data-driven business decisions across departments.
- Built and implemented an anomaly detection engine that proactively identified system degradation.
- Led the creation of predictive and process-optimization models, streamlining workflows & enhancing operational efficiency by 95%.

### Senior Data and Analytics Engineer

*Sterling Bank, Lagos, Nigeria*                Aug 2023 – June 2024

- Designed and implemented ETL data pipelines, increasing adoption of data solutions within the technology team by 100% and improving data accessibility across the enterprise.
- Developed real-time dashboards to monitor risks, reducing fraud detection latency & strengthening risk management.
- Championed the deployment of a self-service observability dashboard, empowering business users with on-demand insights.
- Automated multiple reporting processes, freeing 20+ staff hours weekly and improving operational efficiency for business teams.
- Built predictive models for user behavior classification and creditworthiness scoring, enhancing decision-making in lending.

## Technical Skills

- **Data Analytics & Visualization**: Power BI, Excel, Grafana, SAP Business Objects, Qlik Sense, Microsoft Fabric Analytics
- **Database Management & Querying**: SQL, MSSQL, MySQL, PostgreSQL, MongoDB, BigQuery
- **Programming & Scripting**: Python, SQL,
- **Data Engineering & Workflow Orchestration**: SQL Server Integration Services (SSIS), Apache Airflow, dbt, Docker, Git
- **Cloud Platforms:** Google Cloud Platform (GCP), Azur

## SOFT SKILLS & CORE COMPETENCIES

- Data Analysis & Reporting
- Business Intelligence Solutions
- Data Pipeline Development
- Predictive Modeling & Advanced Analytics
- Process Automation & Optimization
- Collaboration & Stakeholder Engagement
- Analytical & Problem-Solving
- Adaptability & Reliability
- Time Management

## CERTIFICATIONS

- Microsoft Certified: Power BI Data Analyst Associate
- SAP Business Objects Certification
- Professional Scrum Master I (PSM I)
- Microsoft Certified Trainer (MCT)
- Microsoft Fabrics Analytics Engineer

**Data Analyst**

*Nigeria Interbank Settlement System (NIBSS)*     May 2022 -July 2023

NIBSS is the central switch for the Nigerian financial industry, providing infrastructure for automated payment processing, settlement, and data-driven services. NIBSS drives innovation in electronic payments, financial inclusion, and interoperability across banks and fintechs in Nigeria.

- Designed and maintained data pipelines for transformation and migration, ensuring seamless integration of large-scale datasets into enterprise systems.
- Re-engineered core business processes, improving turnaround time (TAT) by 90% and driving operational efficiency.
- Designed and maintained interactive dashboards and reports in Power BI and Grafana, enabling tracking of real-time performance.
- Collaborated with diverse teams to optimize systems and workflows, achieving a 25% improvement in operational efficiency.

**Data Analyst**

*Sterling Bank , Lagos, Nigeria*              Oct 2021 – Feb 2022

- Developed and managed dashboards for the Conduct & Compliance team, improving monitoring and reporting of key business metrics.
- Automated data collection and reporting, cutting manual efforts by 60% and ensuring timely, accurate performance tracking.
- Streamlined compliance reporting processes, improving timeliness and reducing operational risks.

## KEY ACHIEVEMENTS

### Self-Service Dashboard Development

Engineered a scalable ETL pipeline using Python, dbt, and PostgreSQL, powering a self-service dashboard for operational monitoring. Improved real-time visibility into key metrics and enhanced IT team efficiency with on-demand insights.

### Industry-Wide Report Automation

Automated daily and weekly reporting processes across institutions connected to NIBSS using Power Automate, increasing reporting efficiency and timeliness while reducing manual workload by over 60%.

### Anomaly Detection & Alerting System

Designed and deployed a proactive alert engine leveraging statistical modeling and threshold-based rules to detect anomalies in system performance and business metrics, reducing incident detection time by 40% and strengthening service reliability.

## EDUCATION

**MBA**
Miva University, Nigeria (In View)

**Diploma in Data Engineering**
AltSchool Africa
2023 - 2024

**Post Graduate Diploma in Economics**
University of Lagos, Nigeria
2019 – 2021

**Bachelor of Science in Microbiology**
University of Lagos, Nigeria
2007 – 2011