

Jonathan Wangonya Wandera

Address: 1400 N. Main St, Keller, TX 76248

Email: jwandera@gmail.com

Cell: +1 817 743 0680

Alt Cell: +1 817 743 0363

DATA ARCHITECT / DATA ENGINEER

Build scalable, reliable, and value-driven data solutions

With over 20 years of experience in building enterprise data platforms, operational analytics systems, and performance management frameworks that transform complex organizational data into actionable insights. I have supported large-scale international programs—including the **U.S. President's Emergency Plan for AIDS Relief (PEPFAR)**—I design resilient data pipelines, modern analytics architectures, and enterprise data models that improve program accountability and enable data-driven decision-making across global operations..

Data Architecture Data Warehousing ETL/ELT Pipelines API Data Pipelines
PostgreSQL/SQL Server DBT Data Modeling
Cloud Data Platforms Metadata Management Data Quality Monitoring

PROFESSIONAL SUMMARY

DATA ENGINEER - IMS, US DEPARTMENT OF STATE - UGANDA

2021 - 2026

MISSION

Assigned as an Information Management Specialist / Data Engineer to automate operational processes so as to ensure efficient execution of the mission strategic plan.

Lead data platform engineering initiatives supporting operational analytics and program monitoring for the **U.S. President's Emergency Plan for AIDS Relief (PEPFAR)** global public health program.

Self-service Data Lake

- **Architected and deployed a self-service enterprise data lake integrating 10+ operational systems**, improving cross-organizational analytics by designing scalable ingestion pipelines and standardized data models.

SharePoint Implementation

- **Reduced reporting latency by 60% across mission leadership dashboards**, by building automated ELT pipelines using modular data transformations and orchestrated pipeline workflows.

Data Pipeline Reliability

- **Engineered high-reliability data pipeline infrastructure**, achieving near-zero pipeline failures by implementing sandbox testing environments, automated data validation, and observability monitoring.

Analytics Engineering

- **Enabled analytics for \$2B+ public health investments**, by building centralized analytics datasets that consolidated operational, donor program, and logistics data across multiple mission units.

Business Value Alignment

- **Led cross-team architecture initiatives across U.S. and international stakeholders**, aligning data infrastructure with program monitoring and strategic planning requirements..

Technical Environment: Airflow, dbt, Snowflake, Spark, Kafka, SQL Server, PosgreSQL, BEAM (Business Event Analysis Modelling)-Oriented Data Modelling, Cloud Data Infrastructure

ENTERPRISE DATA ARCHITECT, US DEPARTMENT OF STATE - UGANDA MISSION

2016 - 2021

Led architecture and modernization of enterprise operational systems, consolidating disparate data platforms into unified analytics and reporting environments.

Program Analytics Impact	● Designed Agile national COVID-19 reporting data warehouse , improving pandemic monitoring by integrating data from 1000+ clinics, national surveillance systems, and border monitoring platforms.
Analytics Enablement	● Consolidated fragmented operational data systems , enabling mission-wide reporting by designing centralized enterprise data architecture.
Operational Analytics	● Implemented analytics data mart for OBMS (Overseas Business Management System) Motor Pool operations , improving transportation resource utilization and operational planning through automated reporting pipelines.
Change Management	● Advised national health leadership on scalable data architecture , guiding cloud platform adoption and supervising migration of mission-critical reporting infrastructure.
Cloud Data Platform	● Modernized enterprise collaboration and information systems , leading the deployment of Microsoft 365 and secure digital collaboration environments across mission operations..

SENIOR DATABASE ENGINEER / DATA WAREHOUSE ARCHITECT, US DEPARTMENT OF STATE - UGANDA MISSION

2003 - 2016

Designed enterprise database architectures and data warehousing systems supporting operational intelligence and financial oversight for major global health programs..

Operations Re-engineering	● Designed enterprise data warehouses integrating 50+ program partner datasets , improving transparency and reporting accuracy for \$2B+ PEPFAR funding programs
Business Intelligence	● Built cooperative agreement management (grantee) reporting systems , enabling leadership to track program funding allocation and implementation across international partners.

Data Modeling

- **Led development of national blood bank information system**, supporting **25M+ patient records** by managing a software development team and designing relational data architecture.
- **Developed project monitoring databases for 50+ health facility construction programs**, reducing funding inefficiencies by implementing structured reporting and analytics workflows.
- **Introduced early enterprise analytics platforms**, enabling leadership dashboards and program performance reporting through automated data consolidation pipelines.

Technical Environment: SQL Server, PosgreSQL, Microsoft ADO.Net, C#

EDUCATION AND CREDENTIALS

PROFESSIONAL TRAINING AND DEVELOPMENT

1. Balanced Scorecard Master Professional (BSMP) – Balanced Scorecard Institute, USA
2. Balanced Scorecard Certified Professional (BCP) – The Balanced Scorecard Institute, USA
3. Business Intelligence Training - LGIT, South Africa (Microsoft Solution Partner)

FORMAL EDUCATION

1. MSc Big Data – University of Stirling, Scotland, UK
2. BSc Statistics – Makerere University

Referees and training certificates are available upon request