Nichodemus Werre Amollo

Senior Data Analyst | Data Engineering Specialist

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PROFESSIONAL SUMMARY

Data analytics professional with 8+ years of experience designing and implementing scalable data solutions across multi-country operations. Proven expertise in data architecture, infrastructure modernization, and building end-to-end analytical platforms that transform raw data into actionable business insights. Strong technical foundation in SQL, Python, and advanced data management tools. Track record of delivering high-quality data solutions that drive operational efficiency and support strategic decision-making. AWS certified cloud practitioner with hands-on experience in cloud-based data modernization.

CORE COMPETENCIES

- **Data Architecture & Engineering:** Scalable data infrastructure design | ETL pipelines | Data warehouse architecture | Real-time data processing | Data pipeline optimization
- **Data Integrity & Management:** Data quality frameworks | Data validation protocols | Master data management | Data governance implementation | Quality assurance (95%+ standards achieved)
- **Analytics & Insights:** Statistical analysis | Predictive modeling | Segmentation analysis | Business intelligence | Actionable insights translation | Dashboard development
- **Programming & Tools:** SQL (Advanced) | Python (Advanced) | R (Advanced) | Stata | Cloud platforms (AWS) | Data visualization (Tableau, Looker, Power BI)
- **Big Data & Cloud:** Cloud-based data modernization (AWS) | DHIS2 | KoboToolbox | Large dataset management (8,000+ observations, 150+ variables) | Real-time monitoring systems

PROFESSIONAL EXPERIENCE

Senior Data Analyst & Systems Architect

Georgetown University - Regional Evaluation Hub | Apr 2023 – Present

- Designed and deployed scalable data infrastructure across 15+ field sites processing 5,000+ records; built automated ETL pipelines reducing data processing time by 60%.
- Architected real-time monitoring dashboards integrating multiple data sources; implemented data validation protocols achieving 95%+ quality standards.
- Engineered cloud-based data solutions (AWS) for multi-country data operations; optimized database queries improving analysis performance by 40%.
- Established data governance frameworks and integrity standards; led cross-functional teams ensuring consistent data architecture across all operations.
- Developed Python scripts for automated data extraction, transformation, and loading; built reusable code libraries standardizing analytical processes.

Data Management & Analytics Specialist

Kenya Medical Research Institute (KEMRI) | Apr 2022 – Mar 2025

- Managed complex healthcare datasets (2,000+ records) using SQL and Python; performed longitudinal analysis with survival and competing-risk modeling.
- Built automated data pipelines integrating DHIS2 health surveillance, socioeconomic data, and administrative records; achieved 95%+ data quality consistency.
- Designed time-series forecasting models for early warning systems; improved detection accuracy from weekly to 3-day response cycles.
- Created interactive dashboards (Tableau) visualizing key performance indicators for stakeholder reporting and operational decision-making.
- Implemented data cleaning and validation protocols; documented data lineage and metadata standards for organizational knowledge management.

Research Data Manager & Senior Analyst

JOOUST & VLIR-UOS Regional Program | Nov 2020 – Apr 2023

- Managed multi-country datasets (3 countries, 8,000+ observations, 150+ variables); implemented master data management protocols across all locations.
- Developed SQL queries for complex data extraction and analysis; built data warehousing architecture supporting 20+ concurrent reporting dashboards.
- Conducted statistical analysis and data visualization; delivered insights that informed strategic program design decisions.
- Established data quality assurance processes; reduced data errors to <2% across 20,000+ survey responses through validation automation.
- Designed and implemented data collection systems using ODK/SurveyCTO; trained 30+ staff on data integrity standards and system protocols.

Data Systems Analyst

LERIS Hub | Sep 2017 – Nov 2020

- Rolled out digital data collection infrastructure (ODK) across multiple project sites; managed data from collection through analysis and reporting.
- Conducted exploratory data analysis on large multi-source datasets; generated evidence-based reports informing strategic decisions.
- Applied advanced statistical methods (propensity score matching, regression analysis) using R and Stata; documented methodologies for reproducibility.

TECHNICAL SKILLS & TOOLS

- **Programming Languages:** SQL (Advanced) | Python (Advanced) | R (Advanced) | Stata (Intermediate)
- **Data Management & Architecture:** SQL Database Design | ETL Pipelines | Data Warehousing | Master Data Management | Data Governance

- **Big Data & Cloud:** AWS (EC2, S3, RDS certified) | DHIS2 | Cloud-based data modernization | Large dataset processing
- **Data Visualization & BI:** Tableau (Advanced) | Looker (Advanced) | Power BI | ggplot2 | Custom dashboards
- **Tools & Platforms:** Git/GitHub | Jupyter Notebooks | Apache tools | SQL query optimization | Data validation frameworks
- **Statistical Methods:** Time series analysis | Regression analysis | Clustering | Forecasting | Data quality assessment

EDUCATION & CERTIFICATIONS

- **MSc Statistics & Data Science (In Progress)** • University of San Francisco | Expected Jun 2026
- **Graduate Certificate, Social Impact Analytics (Distinction)** • University of San Francisco | Jan 2025 – Dec 2025
- **AWS Certified Cloud Practitioner** • Amazon Web Services | 2022
- **Certificate, Research Methodology & Quantitative Methods** • Johns Hopkins Bloomberg School of Public Health | Apr 2018 – Sep 2019
- **Advanced R for Data Analysis** • DataCamp | 2023
- **Data Science Professional Certificate** • DataCamp | 2023
- **BSc Statistics (Honours)** • University of Nairobi | 2016

KEY COMPETENCIES & STRENGTHS

Examining Information: Systematically analyze complex datasets to identify patterns, anomalies, and opportunities for improvement. 8+ years experience examining multi-source data.

Interpreting Data: Translate technical findings into clear business insights and actionable recommendations for stakeholders at all levels.

Managing Tasks: Successfully manage multiple concurrent data projects across different geographies; deliver results on time with high quality standards.

Team Working: Collaborate effectively across technical and business teams; mentor junior analysts; establish standards and share knowledge.

Upholding Standards: Committed to data quality, accuracy, and governance; implement and enforce standards achieving 95%+ consistency; maintain documentation and best practices.