

NICHODEMUS WERRE AMOLLO

Data Operations Strategist | Analytics Infrastructure & Client Insights

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PROFESSIONAL PROFILE

Data operations strategist with 8+ years of experience building scalable analytics infrastructure for high-stakes decision-making across distributed global teams. Expert at translating complex datasets into actionable insights that drive client retention, revenue optimization, and operational efficiency. Proven ability to architect end-to-end data pipelines, design self-service analytics frameworks, and partner strategically with C-level stakeholders. Thrives in fast-moving environments where analytical rigor meets business agility.

CORE COMPETENCIES

DATA INFRASTRUCTURE

- ✓ SQL (Intermediate–Advanced)
- ✓ Python: pandas, NumPy, scikit-learn
- ✓ End-to-end data pipelines
- ✓ BigQuery & GCP ecosystem
- ✓ Data architecture & modeling
- ✓ ETL automation & validation

ANALYTICS & REPORTING

- ✓ Client behavior & revenue analytics
- ✓ Looker-style dashboards
- ✓ Power BI & Tableau
- ✓ KPI design & reporting frameworks
- ✓ Forecasting & predictive modeling
- ✓ Self-service analytics

LEADERSHIP & COLLABORATION

- ✓ Cross-functional team leadership
- ✓ Strategic stakeholder partnerships
- ✓ Global remote team operations
- ✓ Executive communication
- ✓ Agile analytics delivery
- ✓ Training & capacity building

PROFESSIONAL EXPERIENCE

Regional Analytics Operations Lead

Georgetown University / Regional Data Hub | Apr 2025 – Present

East Africa (Kenya, Uganda, Tanzania, Rwanda) — Remote

- ✓ Architected real-time analytics infrastructure across four countries; designed Looker-style dashboards enabling 50+ stakeholders to monitor metrics in real-time, reducing reporting turnaround from weekly to daily updates.
- ✓ Built end-to-end data pipelines integrating health surveillance and client engagement data; implemented automated validation protocols that improved data accuracy by 35% and eliminated reconciliation bottlenecks.
- ✓ Partnered strategically with regional leadership to define analytics strategy; translated requirements into 12+ custom reporting dashboards supporting decision-making for program expansion.
- ✓ Led analytics team training across remote operations; designed curriculum for 30+ data collectors, resulting in standardized quality and reduced field-level errors by 40%.

- ✓ Automated reporting workflows using Python and SQL, reducing monthly reporting from 20 hours to 4 hours; documented processes for knowledge transfer across distributed teams.

Senior Data Analyst – Data Systems & Forecasting

Kenya Medical Research Institute (KEMRI) | Apr 2023 – Mar 2025

Nairobi & Eastern Uganda (Remote deployments)

- ✓ Designed and maintained end-to-end data pipelines for health surveillance; wrote modular SQL scripts and Python ETL processes to integrate data from 15+ health facilities, ensuring single source of truth.
- ✓ Developed forecasting models for early warning systems; applied time-series analysis and statistical modeling to identify patterns, enabling partners to optimize staffing and allocation 2-3 weeks in advance.
- ✓ Created self-service analytics dashboards (Power BI) for leadership; designed 8 interactive dashboards covering revenue trends, engagement, and KPIs, reducing ad-hoc requests by 60%.
- ✓ Optimized data collection workflows in remote settings; implemented automated validation rules in ODK/Kobo, reducing data cleaning time by 50% and enabling faster insights delivery.
- ✓ Collaborated cross-functionally to identify analytical priorities, translate technical findings into actionable insights, and align reporting metrics with organizational strategy.

Senior Research Data Manager – Data Infrastructure

JOUST & VLIR-UOS Regional Program | Nov 2021 – Apr 2023

Multi-country Operations (Kenya, Uganda, Rwanda)

- ✓ Managed complex multi-country datasets across three countries; architected standardized data collection protocols and ETL workflows ensuring consistency across distributed teams and 50+ data sources.
- ✓ Built data systems and reporting frameworks; designed SQL-based infrastructure to consolidate 50+ data sources, enabling integrated analysis and predictive reporting for organizational leadership.
- ✓ Developed and delivered training on data systems and analytics best practices to 25+ partners; created documentation and runbooks enabling partners to independently manage data pipelines.
- ✓ Designed impact measurement dashboards tracking outcomes, adoption, and efficiency; implemented automated reporting enabling regional leadership to monitor 30+ KPIs across multiple geographies.
- ✓ Automated routine reporting using SQL and Python, reducing effort by 70%; eliminated data quality issues through validation automation, freeing team capacity for strategic work.

EDUCATION & CREDENTIALS

Master of Science in Epidemiology & Biostatistics — JOUST, Kenya (In Progress)

Bachelor of Science in Statistics (Hons) — University of Nairobi, 2016

AWS Certified Cloud Practitioner — 2022

Google Data Analytics Specialization — 2021

Data Science Professional Certificate — DataCamp, 2023

Advanced R for Data Analysis — DataCamp, 2023

TECHNICAL PROFICIENCY

Data & Analytics: SQL (Intermediate–Advanced) | Python (pandas, NumPy, visualization) | R (statistical modeling) | Forecasting & time-series analysis | Regression modeling

Data Infrastructure & Cloud: BigQuery | GCP Products (Cloud Functions, Vertex AI) | AWS Cloud | ETL pipeline design | Data architecture | Schema design | Query optimization

Business Intelligence & Dashboards: Power BI (Advanced) | Looker fundamentals | Tableau | Excel (Advanced)

Data Systems: ODK | Kobo Toolbox | REDCap | DHIS2 | SurveyCTO | QGIS

Statistical Methods: Forecasting analysis | Epidemiological modeling | Survival analysis | Regression models | Mixed-methods research design