Nichodemus Werre Amollo

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Data Engineering • Analytics • ML Systems

Professional Summary

Full-stack data professional with 8+ years of experience across the data lifecycle — from pipeline orchestration and backend services to analytics modeling and machine learning. Proven ability to build scalable data infrastructure, deploy real-time dashboards, and deliver production-grade data products. Adept at balancing reliability, speed, and stakeholder impact in health, education, and research domains across East Africa. Seeking to apply my skills in a fast-moving, mission-driven tech environment like CarePay.

Core Competencies

- **Data Engineering**: ETL pipelines (Airflow), APIs (FastAPI), automation
- **Analytics Engineering**: dbt, star schemas, self-service BI
- **Backend & DevOps**: Python, SQL, Terraform (IaC), Kubernetes, AWS
- **Data Science**: ML modeling, Streamlit prototypes, statistical analysis
- **Collaboration**: Cross-functional teams, mentoring, stakeholder alignment
- **Health Tech Domain**: MEL systems, digital health data, real-world impact

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Technical Skills

- **Languages**: Python, SQL, R, STATA
- **Data Tools**: dbt, Airflow, Looker Studio, Power BI, Apache Superset
- **APIs & Microservices**: FastAPI, REST, JSON, Secure integrations
- **Cloud & DevOps**: AWS, Terraform, CI/CD (GitHub Actions), Kubernetes (familiar)
- **ML & Advanced Analytics**: scikit-learn, causal inference, time-series
- **Documentation & QA**: SOPs, testing, code reviews, reproducibility standards

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Professional Experience

Lead Biostatistician & Data Systems Engineer
Georgetown University – East Africa Programs | Apr 2025 – Present

- Built secure, automated data pipelines (API-based) to power health monitoring dashboards across 3 countries.
- Designed and deployed backend analytics services using **Python and FastAPI**.
- Led the architecture for MEL data infrastructure, including role-based access and QA triggers.
- Co-developed machine learning models to monitor program outcomes in near real-time.

Statistician & Evaluation Data Specialist
Kenya Medical Research Institute (KEMRI) | Apr 2023 – Mar 2025
- Developed and maintained dashboards for government-funded health programs using **Power BI & SQL**.
- Built ETL processes to extract, transform, and aggregate multi-source health program data.
- Ran advanced **regression and forecasting models** for national policy reporting.
- Collaborated closely with engineers, program officers, and ministry teams.

Senior Data Manager & Systems Analyst
VLIR-UOS / JOOUST (Kenya, Uganda, Rwanda) | Nov 2021 – Apr 2022
- Migrated legacy data systems to modern stack (Looker Studio → Power BI).
- Refactored ETL logic and enforced consistent data models for cross-border data integration.
- Co-led regional analytics working group, promoting reproducibility and collaboration.

Data Analyst & MEL Engineer
LERIS Hub, Kenya | Sep 2017 – May 2021
- Automated data pipelines for over 10 community-based projects.
- Managed cloud-based storage and created modular scripts for monitoring KPIs.
- Supported internal data science training and team upskilling sessions.

Key Projects
- **FastAPI Services for Health Programs**: Developed lightweight microservices to serve KPIs to partner dashboards.
- **Real-Time Dashboarding in Power BI**: Integrated APIs and SQL logic to provide daily updates to field teams.
- **ML for Early-Warning Systems**: Built classification models to identify intervention gaps across counties.
- **ETL Orchestration with Airflow**: Implemented pipeline DAGs and alert systems for failed job retries.

Education
MSc in Statistics & Data Science (Ongoing) – JOOUST, Kenya *(Expected 2026)*
BSc in Statistics (Honours) – University of Nairobi

Certifications
- *Google Data Analytics Professional Certificate*
- *AWS Certified Cloud Practitioner*

- *Monitoring & Evaluation for Global Health – University of Washington*
- *Biomedical Research Ethics – CITI Program*

Languages
- English – Fluent | Kiswahili – Fluent