

# SUNDAY UKPOGWU ELESİ

Public Health Informatics Advisor

Abuja, Nigeria | +234 810 123 6309 | [sundayelesi@gmail.com](mailto:sundayelesi@gmail.com) | <https://sundayelesi.com.ng>

## PROFESSIONAL SUMMARY

---

Public Health Informatics Advisor with over 8 years of experience designing and strengthening digital health systems, improving data quality, and supporting national surveillance initiatives. Proven expertise in transforming complex health datasets into actionable insights through automation, analytics, and system integration. Skilled in software engineering, AI-enabled tools, interoperability standards, and capacity building for multidisciplinary teams. Experienced in coordinating digital health and innovation projects, and collaborating with diverse stakeholders to improve data quality, system performance, and evidence-driven decision-making.

## CORE SKILLS & COMPETENCIES

---

- **Health Information Systems:** EMRs (NigeriaMRS, OpenMRS), DHIS2, National Data Repository, LIMS, SORMAS, infectious disease surveillance systems
- **System Design & Interoperability:** System architecture, REST APIs, HL7/FHIR, data exchange protocols, system integration, automated data pipelines and ETL workflows
- **Data Engineering & Analytics:** Python, JavaScript, Node.js, Flask, PostgreSQL, MySQL, MongoDB, KoboCollect, ODK, data quality assurance, MEL indicators, program analytics
- **AI & Emerging Technologies:** API-based data integration, model-ready dataset preparation, model deployment, automated workflows, automations.
- **Visualization & Reporting:** Power BI, Excel automation, dashboards, technical documentation
- **DevOps & Infrastructure:** Git/GitHub, Linux servers, VPS, CI/CD pipelines, Oracle Cloud, AWS
- **Professional Skills:** Technical assistance, stakeholder coordination, capacity building, mentoring, technical writing, cross-functional team collaboration

## PROFESSIONAL EXPERIENCE

---

### **PATH Nigeria – Abuja, Nigeria**

#### ***Health Information Systems Advisor (STRIDES Project)***

***Apr 2026 – Present***

- Support desk reviews of national surveillance policy documents, including the NCBSSP 2023-2027 and INEHSS Guidelines 2025, translating findings into structured analytical matrices covering governance, data quality, workforce capacity, and One Health coordination.
- Analyze existing digital health infrastructure across SORMAS, DHIS2, NADIS, NEIMS, SITAware, and EIOS, documenting interoperability gaps and developing a visual map of surveillance linkages to guide integration efforts at national and subnational levels.
- Design a pilot to improve multisectoral IBS/EBS surveillance and response using an interoperability and 7-1-7 framework, and support the testing of standardized data collection tools across human and animal health sectors, including simulation exercises and interactive training modules.

- Provide technical support to strengthen data management, analytics, and EMCE functions across target states, including updating PHEOC SOPs, reviewing cross-border reporting practices, and facilitating coordination meetings for outbreak surveillance.

### **FHI 360 – Abuja, Nigeria**

#### ***Technical Advisor, Health Informatics***

***Nov 2023 – Jan 2026***

- Led the design, development and implementation of a Case Management web application to track performance of case managers across multiple KPIs, improving accountability and follow-up tracking.
- Developed a patient appointment management module within an OpenMRS-based EMR, improving appointment efficiency by 30%.
- Strengthened SQL-based data pipelines and automated migration workflows, reducing migration time by 50%.
- Supported analytics and MEL reporting by implementing structured data extraction and analysis workflows.
- Built a Python-based data automation pipeline that extracts patient-level data from OpenMRS using database views, converts it into CSV, JSON, and XML formats, and integrates automated data quality auditing with execution reporting to support timely, accurate program monitoring and reporting.
- Coordinated a structured capacity-building program for interns and volunteers in Health Informatics, M&E, and Research.

### **Caritas Nigeria – Enugu, Nigeria**

#### ***Technical Specialist, Health Informatics***

***Oct 2021 – Nov 2023***

- Led digital health implementation across HIV care and treatment facilities, providing strategic leadership for Health Information Systems strengthening.
- Supported the development and optimization of Nigeria’s National OpenMRS-based EMR (NigeriaMRS) in collaboration with national stakeholders.
- Conducted trainings for M&E officers, data clerks, and facility staff on EMR use, data validation, and analytics.
- Supported the deployment and operationalization of an IIT predictive module within OpenMRS-based EMRs to identify patients at risk of interruption in treatment and support proactive retention interventions.
- Implemented system-wide data quality assurance mechanisms, achieving 99.9% concurrence across EMR and the National Data Repository.

#### ***Technical Officer, Health Informatics***

***Jan 2020 – Sept 2021***

- Supported the continuous development of new features within the OpenMRS-based EMR, improving usability and system reliability.
- Developed and deployed an automated analysis tool that reduced manual reporting workload by 40%.
- Optimized SQL scripts and queries to enhance data extraction for program monitoring, improving operational efficiency by 20%.
- Led the successful migration of data for 37 health facilities to the unified OpenMRS-based EMR with zero data loss.

## **APIN Public Health Initiatives – Benue, Nigeria**

### ***Program Associate, Database Management***

***Mar 2018 – Jan 2020***

- Analyzed monthly program data across 27 facilities, producing dashboards and summaries for strategic decision-making.
- Cleaned, validated, and prepared datasets for DHIS2 reporting and national submissions.
- Supported EMR deployment, optimization, and troubleshooting across multiple sites.
- Led data quality assessments initiatives to improve data quality for national reporting and decision-making.

## **EDUCATION**

---

- **National Open University of Nigeria** April 2026  
M.Sc. Information Technology
- **Ahmadu Bello University, Zaria** Jan 2024 – Dec 2024  
Master in Information Management
- **Kebbi State University of Science and Technology** Nov 2011 – Dec 2015  
B.Sc. Information Technology (First Class)

## **CERTIFICATIONS**

---

- Microsoft GitHub CoPilot Certification – Microsoft (2025)
- Project Management in Global Health – University of Washington (2023)
- Project Management for Development Professionals (PMD Pro) – PM4NGOs (2022)
- Python Programming Certificate – HIIT (2021)
- Leadership & Management in Health – University of Washington (2019)