



# EBENEZER KWAW

## Public Health Data & Digital Health Specialist

 Location: Accra, Ghana

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 [LinkedIn](#) | [Portfolio](#) | [GitHub](#)

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### PROFESSIONAL SUMMARY

Public Health Data & Digital Health Specialist with **8+ years of experience** designing and strengthening health information systems within Ghana's public health sector.

Expert in **monitoring & evaluation (M&E), data systems, and analytics**, with strong capabilities in **Python, SQL, Power BI, and Streamlit** to build decision-support tools and predictive models.

Proven ability to transform fragmented health data into **actionable insights, dashboards, and AI-powered solutions** that improve program performance, policy decisions, and outbreak preparedness.

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### CORE SKILLS

#### Public Health & Systems

- Monitoring & Evaluation (M&E) Systems
- Health Information Systems (DHIMS, Kobo Collect)
- Indicator Design & SDG Reporting
- Data Quality Audits & Validation
- Epidemiological Surveillance

#### Data & Technology

- Python (Pandas, ML Models)
- SQL & Data Pipelines
- Power BI & Data Visualization
- Streamlit App Development
- API Integration (Fast API)

## **Digital Health & Innovation**

- Predictive Analytics (Public Health Use Cases)
- AI for Health Decision Support
- Dashboard & Reporting Automation
- Digital Tool Deployment

## **PROFESSIONAL EXPERIENCE**

### **District Nutrition Officer / Public Health Officer**

#### **Ghana Health Service | 2021 – Present**

- Strengthened district-wide health data systems across maternal health, nutrition, and immunization programs
- Managed data pipelines from facility-level collection → DHIMS reporting
- Designed reporting templates & validation tools improving data accuracy and timeliness
- Conducted data analysis & performance reviews to guide decision-making
- Developed SOPs and data quality frameworks for health facilities
- Supported outbreak monitoring and emergency preparedness analytics

### **IPTp Programme Coordinator (District Rep)**

#### **RootsLink Africa – Malaria Elimination Programme | 2023 – Present**

- Built a real-time M&E system using Kobo Collect for IPTp tracking
- Developed interactive dashboards & structured datasets
- Performed trend analysis to identify service gaps
- Trained health workers in digital data collection & reporting standards
- Produced reports used by National Malaria Elimination Programme (NMEP)

### **Community Health & Advocacy**

- Designed behaviour change campaigns
- Led community engagement strategies
- Supported public health awareness programs

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### **Machine Learning & Data Analytics Intern**

#### **Thrive Africa (Remote) | Sept 2025 – Dec 2025**

- Developed Transformer-based NLP model (Distil BERT)
- Built Streamlit dashboards & APIs (Fast API)
- Applied CI/CD and version control workflows
- Delivered data-driven insights for stakeholders

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## **EDUCATION**

BSc. Public Health (Community Nutrition)

University for Development Studies | Ghana | 2016

General Science | WASSCE

## **CERTIFICATIONS & TRAINING**

- Generation Digital Marketing Program (April 2025)
  - Website Development (WordPress) & SEO – Thrive Africa (Dec 2025)
  - Front-End Software Engineering – Thrive Africa (Dec 2025)
  - Machine Learning & AI – Thrive Africa & Koforidua Technical University (2025)
  - Data Science Certificate Thrive Africa & Koforidua Technical University (2025)
  - Cybersecurity Certificate – Thrive Africa & Koforidua Technical University (2025)
  - Project Management in Global Health – University of Washington | 2023
  - Monitoring & Evaluation in Global Health – University of Washington | 2023
  - Introduction & Intermediate to Python -Data Camp (2025)
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## **SOFTWARE & TOOLS**

- Productivity & Project Management: Trello, Google Workspace (Docs, Sheets, Drive), Microsoft Office (Word, Excel, PowerPoint)
  - Communication & Collaboration: Slack, Zoom, Google Meet, Microsoft Teams
  - Email Management: Mailchimp, Gmail, Outlook
  - VOIP: Zoom Phone, Skype, WhatsApp Business
  - Data & Analytics: Python, SQL, Power BI, Excel
  - Health Systems: DHIMS, Kobo Collect
  - Development: Streamlit, Fast API, Git/GitHub
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## **KEY PROJECTS (DIGITAL HEALTH & AI)**

### **SurveilAI – Epidemiological Surveillance System**

- Built a disease surveillance dashboard with geospatial mapping
  - Implemented hotspot detection (DBSCAN)
  - Designed risk scoring system for outbreak prediction
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### **ITN Usage Prediction App**

- Developed ML model to predict mosquito net usage behavior
  - Built interactive simulation dashboard for policy planning
  - Enabled bulk data forecasting & segmentation
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### **Post-Caesarean Risk Prediction Tool**

- Built Random Forest model for clinical risk classification
  - Designed real-time decision dashboard for healthcare use
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## REFERENCES

1. Mr. Shadrack Aidoo  
Agona East District Health Directorate  
Ag District Director of Health Services  
[Shadrack.aidoo@ghs.gov.gh](mailto:Shadrack.aidoo@ghs.gov.gh)  
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