FREDRICK ONYANGO

■ Indianapolis, IN | ■ +1 (317) 626-4086 | ✉ freddeonyango@gmail.com | ✉ fonyango@iu.edu
■ GitHub | LinkedIn

PROFESSIONAL SUMMARY

Graduate student in Health Informatics at Indiana University with a strong foundation in healthcare data systems, data analysis, and eLearning development. Experienced in research, machine learning applications in health, and health data visualization. Passionate about leveraging informatics and data-driven insights to improve healthcare delivery, resource allocation, and patient outcomes.

EDUCATION

Master of Science in Health Informatics – Indiana University, Indianapolis, USA (Jan 2025 – Expected Dec 2026)

Bachelor of Science in Health Information Management & Informatics – Jomo Kenyatta University of Agriculture and Technology, Kenya (2013 – 2017)

TECHNICAL SKILLS

SPSS | Python | Java | C++ | HTML | Visual Basic | MySQL | SQL | XAMPP | WAMP | Moodle | Lectora | Power BI | Tableau | Microsoft Office Suite

EXPERIENCE

Research Assistant – BioHealth Informatics Research Center (BHRIC Lab), Indiana University (2025 – Present)

Conducting research on machine learning for early detection of gastrointestinal cancers, focusing on data preprocessing, model evaluation, and clinical insights.

Graduate Research Intern – The Polis Center, Indiana University (2025 – Present)

Supporting projects in spatial data analytics and public health outcomes through dashboard development and data integration.

Graduate Assistant – Uzima University (2021 – 2023)

Designed eLearning content, delivered lectures in health informatics, and supported curriculum development and digital learning initiatives.

Tutor & Head of Department – Nyabondo Medical Training College (2018 – 2021)

Led faculty operations, developed academic materials, and mentored students in health programs.

Data Analyst Intern – National Hospital Insurance Fund (NHIF) (2018)

Performed data analysis and contributed to the development of web-based accreditation tools.

RESEARCH & PROJECTS

• Machine Learning for Early Detection of Gastrointestinal Cancers – Developed a predictive model using Python for biomarker-based classification.

• Disaster Resource Allocation Dashboard – Designed a Power BI dashboard integrating DHIS2 and Excel for real-time decision support.

• iHRIS Data Analytics & Visualization – IntraHealth International (2019).

• eLearning Mentorship Program – Maseno University (2019).

• Health Informatics Governance & Data Analytics Bootcamp – USAID & JKUAT (2017).