

Vikwato Kamanga

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Data Analyst with over 5 years of experience in public health, which includes data analysis, data management, data visualization and project management. Highly skilled in automation of manual processes and data insight, resulting in improved data quality and timeliness of reporting. Demonstrated leadership, problem solving, communication and supervisory abilities.

SKILLS

Programming: Python, R, SQL, JavaScript, HTML/CSS, PHP, Java, TypeScript

Database Management: PostgreSQL, MySQL, Microsoft SQL Server, Mongo DB, Neo4j

Data Visualization/Presentation: Tableau, Microsoft Power BI, Microsoft Excel, Microsoft PowerPoint

Libraries/Cloud Computing/Frameworks: AWS Services, DataBrick, Spark, Pandas, Scikit-Learn, Numpy, D3.js, Flask, Laravel, Angular, DHIS2, ODK

Version Control: Git

EDUCATION

Master of Science (M.S.) - Analytics

Aug 2020 - Dec 2022

Georgia Institute of Technology, Atlanta, GA

Bachelor of Science (B.S.) - Computer Science

Oct 2013 - Dec 2017

University of Zambia, Lusaka

EXPERIENCE

Senior Strategic Information Officer

Oct 2021 - Present

Centre for Infectious Disease Research in Zambia, Lusaka

- Managed a team of 5 on data management/analysis and design/implementation of information management systems using JIRA and Asana.
- Increased team capacity for more projects and improved change management by reducing redundant effort for reporting activities by 80%, enabling agile project execution.
- Improved data usage and automation of data reporting activities within external partners/clients' organisations through online real-time centralized information management systems.
- Integrated software engineering principles throughout the software development life cycle for the successful implementation of business intelligence using DHIS2 and Power BI.
- Provided project updates, analysis of KPIs to key stakeholders and gave insight into budgeting for required activities and staffing for information management of public health projects.
- Development of file backup system using Python (Flask framework) for medical image scans of participants in a TB study.

Strategic Information Officer

Jan 2018 - Sep 2021

Centre for Infectious Disease Research in Zambia, Lusaka

- Data management of public health programmatic data, research studies and clinical trials for HIV treatment, prevention and testing as well as Cholera vaccines and infant immunization.
- Training of clinical and data staff at facility, district, provincial and national level on good practices for working with data.
- Creation of electronic data collection forms for tracking patient healthcare, reporting of aggregated data and surveys using DHIS2, ODK, Survey Monkey and Qualtrics.
- System administration of DHIS2 based systems, ensuring secure external server setup, installation, and maintenance of DHIS2 and supporting software, data backups, and regular software updates.
- Presented at 2 abstracts at 2 conferences to showcase use case and best practices on implementation of DHIS2 systems.
- Awarded the most innovative employee in 2019 for work done in improving data reporting through automation of various manual business processes.
- Provided analysis that supported use of mobile app technology for healthcare information sharing to teens and youth.
- Automated the distribution of reward airtime to study participants in real time using Survey Monkey and Qualtrics APIs, and Python.

LICENSES & CERTIFICATIONS

Lean Six Sigma

2022

Georgia Tech Supply Chain and Logistics Institute

HONORS & AWARDS

Most Innovative Employee

2019

Centre for Infectious Disease Research in Zambia