








VICTOR OWINO

DATA & ANALYTICS SPECIALIST

CONTACT

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EDUCATION

Bachelor of Science in Computer Science
University of Eldoret, Kenya
2016-2020

Monitoring and Evaluation in Global Health
University Of Washington, United States.
Jan 2022- April 2022

Digital Transformation, Leadership and Management
Thunderbird School of Global Management
College of Arizona State University
Jan 2021-April 2021

TECHNICAL SKILLS

- Data mining and segmentation
- Advanced Excel- functions, formulas, and macros
- SQL & NoSQL Database development, manipulation and queries.
- Business intelligence and data analytics using Google Data Studio and Power BI
- Statistical Quantitative methods using Python libraries, SPSS. and STATA.
- Data Engineering-including ETL (Extract, Transform, Load) processes, Power Queries, DAX and data modeling.
- Data Science & Machine learning algorithms
- Continuous Integration/Continuous Deployment (CI/CD) pipelines utilizing GitHub
- IT support, including network configuration and maintenance
- Web Development using Django, HTML and JavaScript
- Project management skills

PROFILE

Highly skilled data professional with expertise in advanced data collection methods, data quality monitoring, analysis, reporting, and database management. Proven track record of efficiently gathering crucial data, informing decision-making, and enhancing outcomes. Driven by a passion for leveraging data science to tackle global challenges and drive impactful change, I am committed to staying abreast of cutting-edge industry trends and technologies. Aiming to leverage strong analytical and problem-solving abilities to contribute to an organization's success in driving data-driven initiatives and delivering actionable insights for scalable impact.

WORK EXPERIENCE

Data Analytics Officer

Kenyatta National Hospital- CIHEB CONNECT Project

Oct 2021-Present

Data Collection:

- Implemented advanced data collection methods, surveys, and questionnaires to efficiently gather crucial study/research and project monitoring data, ultimately informing decision-making and enhancing patients' outcomes.
- Developed and scripted questionnaires to facilitate the end-to-end management of data collection, ensuring the accurate and timely acquisition of essential information.

Data Quality Monitoring:

- Implemented robust data validation procedures, including high-frequency quality checks, to ensure data met the highest quality metrics by identifying and flagging any observed inconsistencies.

Data Analysis and reporting:

- Provided comprehensive data and analytic support, encompassing data cleaning, management, and analysis, resolving data issues, and effectively communicating visually represented insights to managers and stakeholders.
- Collaborated with cross-functional teams to enhance data-related processes, fostering a culture of data-driven decision making throughout the organization.
- Support all program reporting needs, including developing narrative reports for non-technical audiences, creating dashboards and presentations.
- Continuously update and populate program M&E templates to inform of the progress made vis-à-vis targets.
- Strategically devised and upheld performance metrics and KPIs to evaluate program effectiveness and guide Quality Improvement initiatives, resulting in enhanced program efficiency and improved patient outcomes through data-driven insights.

Database management:

- Spearheaded the design, setup, and maintenance of dashboards, databases, and data-related processes, driving continuous improvement across the organization.
- Acquired data from primary and secondary sources, ensuring the integrity and accuracy of databases and data systems.
- Prepared comprehensive analysis reports, enabling stakeholders to make informed decisions by understanding the data analysis steps, critical facts, and emerging trends.
- Proactively identified and pursued opportunities for system improvements, optimizing data management and analysis capabilities.
- Performing regular database backups

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CERTIFICATIONS:

- Microsoft Certified: Power BI Data Analyst Associate -**Microsoft**
- DHIS2 Aggregate Data Analysis & Data Quality -**University of Oslo** through **DHIS2 Online Academy**
- Data Analysis with Python -**IBM Cognitive Class**
- Data Engineering with Python- **Data Camp**
- Data Analytics Consulting Virtual Experience -**KMPG**
- Applied Data Science and Machine - **University of Michigan (Coursera)**
- HIV Case-Based Surveillance (CBS) - **NASCOP KENYA**
- HIV Monitoring and Evaluation Tools - **NASCOP KENYA**
- SQL and Relational Databases - **Big Data Laboratory Telkom University**

SOFT SKILLS

- Creative doer
- Eye for Detail
- Time management abilities.
- Ability to lead people and teams in dynamic environments
- Ability to explain technical concepts to non-technical stakeholders.
- Analytical acumen & problem solving
- Rational Thinker
- Emotional Intelligence
- Adaptable and team player
- Fulltime learner

RESEARCH INTERESTS

- Big Data Analytics and Scalable Processing
- Data Mining and Pattern Recognition
- AI for Social Good
- Machine learning algorithms for medical image analysis and interpretation.
- Deep Learning and Neural Networks
- Natural Language Processing (NLP)
- AI-powered Adaptive learning and personalized education

LANGUAGES

- English - Professional Fluency
- Swahili- Fluent
- Dholuo - Native Language

REFERENCES

- Available Upon Request

WORK EXPERIENCE

Program Data Officer

University of Nairobi - COEHM Project

Jun 2020 – Sep 2021 (1 yr 4 mon)

I provided day-to-day management of data issues and various approaches to data retrieval, cleaning, collation, and preliminary data analysis to identify potential data anomalies at program level. My contributions ensured the availability of quality data for surveillance monitoring, evaluation, and learning to the program and relevant stakeholders. Some specific accomplishments include:

- Contributed to the retrieval, cleaning, collation, and organization of data from various sources to answer research questions and generate summary reports.
- Demonstrated expertise in executing queries, implementing database maintenance, and collaborating with HMIS team to develop effective database management strategies to meet project data management requirements..
- Supported the creation of tailored dashboards and reports (using advanced excel and power BI) for specific audiences based on their data demand and needs for program assessment and decision-making.
- Tested new data management processes and systems and advised the HMIS unit on ways to enhance them.
- Writing technical analytical reports that effectively communicate insights and recommendations derived from data analysis, contributing to informed decision-making and successful program outcomes.
- Prepared quarterly, semi-annual, and annual data summaries for reports to the Ministry of Health and funding agencies.
- Contributed to the design of collection protocols and standard operating procedures (SOPs) and quality improvements by performing descriptive data analysis and data quality assurance checks to detect anomalies and provide improvement recommendations.
- Successfully developed and maintained data collection tools on mobile platforms, including ODK Collect and Kobo Collect, streamlining data collection processes and ensuring data accuracy and completeness.
- Implemented data governance and security measures to ensure the integrity, availability, and confidentiality of data.
- Contributed to data quality capacity building initiatives within the organization and supported facilities.
- Provided training and support to other members of the team to improve their data management skills

Business Intelligence Analyst

Techedge Africa

Jan 2020 – Jun 2020 (6 mon)

- Implemented a data-driven sales tracking and forecasting system, resulting in improved decision-making about resource allocation and marketing strategies.
- Developed interactive dashboards using SQL and Power BI, allowing real-time tracking of key performance indicators.
- Utilized machine learning techniques to identify potential sales leads and predict customer churn, resulting in increased sales and customer retention.
- Contributed to record levels of sales and customer satisfaction, positioning the company as a leader in the highly competitive digital market through advanced data analysis and visualization techniques.
- Provided insights to the management team to improve marketing, sales, and customer service strategies.
- Developed and maintained data dictionaries and metadata to improve data understandability and traceability.
- Developed and maintained a data governance plan to ensure the integrity, availability, and confidentiality of data.
- Provided training and support to other members of the team to improve their data analysis skills.
- Developed and maintained a BI architecture and design to improve data accessibility and reporting capabilities.
- Created and published reports, scorecards, and dashboards to share insights with internal stakeholders and external partners.