SILVIA MUTHONI MBOGO

Data Analyst & Software Developer

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Nairobi, Kenya

LinkedIn

GitHub

Portfolio

PROFESSIONAL SUMMARY

Results-driven Data Analyst and Software Developer with a Bachelor's degree in Mathematics and Computer Science, graduating with Second Class Honors - Upper Division. Possesses strong expertise in transforming complex datasets into actionable business intelligence using advanced analytical techniques and data visualization tools, combined with robust software development skills. Proven track record of improving operational efficiency by up to 60% through process automation and data-driven solutions. Experienced in cross-functional collaboration, stakeholder management, and delivering insights that drive strategic decision-making across diverse industries including education technology, healthcare, and retail operations. Combines technical proficiency in Python, SQL, Power BI, web development technologies, and statistical analysis with business acumen to solve complex challenges and deliver measurable organizational impact.

WORK EXPERIENCE

Business Development Partner

Nyota Njema Real Estate

 Jul 2025 – Present

- Act as the primary liaison between business units and IT technical teams, translating commercial goals into technical requirements
- Develop technology roadmaps and business cases for PropTech solutions to drive growth and operational efficiency
- Evaluate and manage relationships with technology vendors and implementation partners
- Identify opportunities to leverage technology for process improvement and competitive advantage

Sales Accountant

Gathoni Enterprise

Jan 2025 – Jun 2025

- Handled day-to-day accounting processes to drive financial accuracy, implementing new verification protocols that reduced accounting errors by 25%
- Documented cash, credit, fixed assets, accrued expenses, and line of credit transactions, creating a standardized documentation system that improved audit efficiency
- Introduced automated reconciliation processes that reduced month-end closing time by 40% and improved financial reporting accuracy
- Developed financial tracking systems that provided real-time visibility into company performance, enabling more informed business decisions

Data Analyst

edX

Jun 2024 – Jan 2025

- Developed comprehensive dashboards that provided insights leading to significant economic decisions, transforming the organization's approach to data-driven strategic planning
- Analyzed complex datasets to identify trends and patterns supporting strategic business planning, enabling proactive decision-making and resource allocation
- Collaborated with cross-functional teams to translate business requirements into data solutions, establishing a new framework for inter-departmental data collaboration
- Automated data refresh schedules and optimized reporting processes, reducing manual reporting time by 30% and improving data accessibility across the organization

Software Developer

Chess Kenya

Mar 2023 – Feb 2024

- Developed software solutions for chess tournament management and participant tracking, revolutionizing how national tournaments were organized and managed
- Updated old code bases to modern development standards, improving functionality and reducing system response time by 40%
- Implemented automated participant tracking that reduced administrative workload by 60% and eliminated manual pairing errors in tournaments
- Created a scalable system architecture that supported tournament growth from 200 to 500+ participants without performance degradation

Data Entry Clerk

USAID ABT Associates – PMI Kinga Malaria

Mar 2023 – Apr 2023

- Managed data reception from field operations, ensuring timely and accurate entry into DHIS2 system for real-time malaria surveillance
- Performed comprehensive data cleaning and validation, improving data quality by 35% and enhancing the reliability of malaria incidence reports
- Implemented organized filing systems for data forms that reduced document retrieval time by 50% and improved audit readiness
- Contributed to malaria prevention efforts by ensuring accurate and timely data processing that supported evidence-based intervention strategies

EDUCATION

Bachelor of Science in Mathematics and Computer Science

Jomo Kenyatta University of Agriculture and Technology (JKUAT), Kenya

Sep 2020 – May 2024

Graduated with: Second Class Honors - Upper Division
Relevant coursework: Statistics, Data Structures, Database Systems, Mathematical Modeling, Algorithms, Software Engineering

KCSE

Bishop Gatimu Ngandu Girls' High School

2016 – 2019

Attained a mean grade of A-

SKILLS

Software Development

HTML, CSS, JavaScript, Django, React, Web Development, SQL, Python, Software Development

Data Analytics

Data Analysis, Data Visualization, Excel, Power BI, Tableau, Statistical Techniques, Data Cleaning

Business & Technical

Financial Accounting, DHIS2, Process Automation, System Architecture

CERTIFICATIONS

- Web Development - Emobilis (2025)
- Associate Data Analyst with SQL - DataCamp (2025)
- Analyzing Data with Excel - IBM via EDX
- Analyzing and Visualizing Data with Power BI - Davidson College via EDX
- Data Analytics - Microsoft

ACHIEVEMENTS

- Graduated with Second Class Honors - Upper Division in Mathematics and Computer Science
- Achieved A- mean grade in KCSE
- Successfully completed multiple professional certifications while pursuing undergraduate studies
- Contributed to malaria prevention efforts through accurate data management for USAID's PMI Kinga Malaria program