

Data Analyst | Software developer

Profile Summary

Innovative seasoned Data Analyst and Emerging Software Developer with a robust multidisciplinary background in data analytics, research, and technology. Demonstrated expertise in transforming complex data into actionable insights, developing scalable systems, and driving strategic decision-making across diverse domains.

Skills:

Data Science & Analytics

- Programming Languages: Python, R, SQL
- Advanced statistical Modelling
- Data pipeline architecture
- Data visualization
- A/B testing frameworks

Software Development

- Web Technologies: JavaScript, HTML, CSS, React, TypeScript, Python (Django and Flask)
- System design and API development

Additional Technical Competencies

- Strategic road mapping
- Cross-functional leadership
- Data governance

Experience:

Laboratory Data Lead – CIHEB KENYA July 2024 – Present:

- Designed and implemented secure laboratory data systems for AIMS in KENPHIA II, ensuring compliance with data security standards.
- Developed and automated real-time reporting dashboards for streamlined survey data analysis and decision-making.
- Optimized lab IT infrastructure by enhancing data flow management, improving efficiency and accuracy in lab data processing.
- Led system design for the LTC app, improving Return of Results (ROR) workflows and patient data tracking.

- Conducted rigorous testing of LDMS to ensure system functionality aligned with survey requirements and compliance protocols.
- Enforced robust data integrity and patient anonymity protocols, implementing encryption and secure handling of sensitive health data

Research Analyst, Aga Khan University Hospital, 2016 – 2022

- Conducted in-depth data analysis on clinical and operational research projects, supporting evidence-based decision-making.
- Managed and analyzed large healthcare datasets, ensuring data accuracy, consistency, and compliance with institutional protocols.
- Developed statistical models and visual reports to identify trends, optimize resource allocation, and enhance patient care strategies.
- Collaborated with medical and academic teams to design and execute research studies, integrating data-driven insights.
- Ensured data integrity and compliance with ethical and regulatory standards, maintaining confidentiality in research processes.
- Streamlined data collection processes by implementing automation and improving data management workflows.
- Supported interdisciplinary research by aligning goals with institutional priorities, mentoring junior staff, and conducting analysis.

Forward Program Fellow (April – December 2022), McKinsey and Company:

- Collaborated on data-driven consulting projects, formulating strategies to optimize client operational processes.
- Developed strategic solutions for optimizing client operational processes
- Applied advanced analytical techniques to complex business challenges

Education:

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- Master of Business Administration – Strategic Management (2024–2026): Liverpool John Moore's University
 - Full stack developer Certification (2024–2025): Moringa School
 - Data Science Certification (2022): Moringa School
 - Monitoring and Evaluation certification (2020): Kenya Institute of Management.

- BSc in Medical Laboratory Sciences (2015): Mount Kenya University.