

SAMUEL MUCHAI MACHARIA

HEALTH INFORMATICS SPECIALIST | HEALTH RECORDS AND INFORMATION TECHNOLOGIST

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📄 PROFILE

Motivated Health Informatics and Digital Health student with hands-on experience in data management, hospital information systems, and healthcare software support. Passionate about using data and technology to improve patient care, strengthen digital-health infrastructure, and support evidence-based decision-making. Skilled in Python, SQL, JavaScript, HTML, and CSS, with growing expertise in database management, data visualization, and medical coding (ICD-11). Actively learning Solidity and exploring AI applications in healthcare analytics.

📁 WORK EXPERIENCE

Naivasha County Referral Hospital

Health Records & Informatics Attaché 05/2025 – 08/2025

- Managed and analyzed patient health data using hospital information systems, improving data accuracy and accessibility
- Streamlined mortality and morbidity processes using ICD-11 standards.
- Supported IT and database systems to ensure reliability and security.
- Collaborated in healthcare software development to modernize digital workflows.
- Enhanced understanding of cybersecurity, data integrity, and digital health standards.

Health Records & Informatics Attaché 05/2024 – 07/2024

- Registered, admitted, and discharged patients using EMR systems.
- Designed digital data collection tools for clinical departments.
- Clinic preparation and scheduling of appointments.
- Prepared and uploaded statistical reports to the Kenya Health Information System (KHIS).
- Supported clinic scheduling and record digitization processes.
- Designing data collection forms for various departments
- Compilation of inpatient statistics and maintenance of bed bureau

🎓 EDUCATION

Jomo Kenyatta University of Agriculture and Technology (JKUAT) 2022 – 2026

Bachelor of Science in Health Records and Informatics

Relevant Coursework: Health Data Analytics, Database Management, Health Information Systems, Epidemiology, Medical Coding

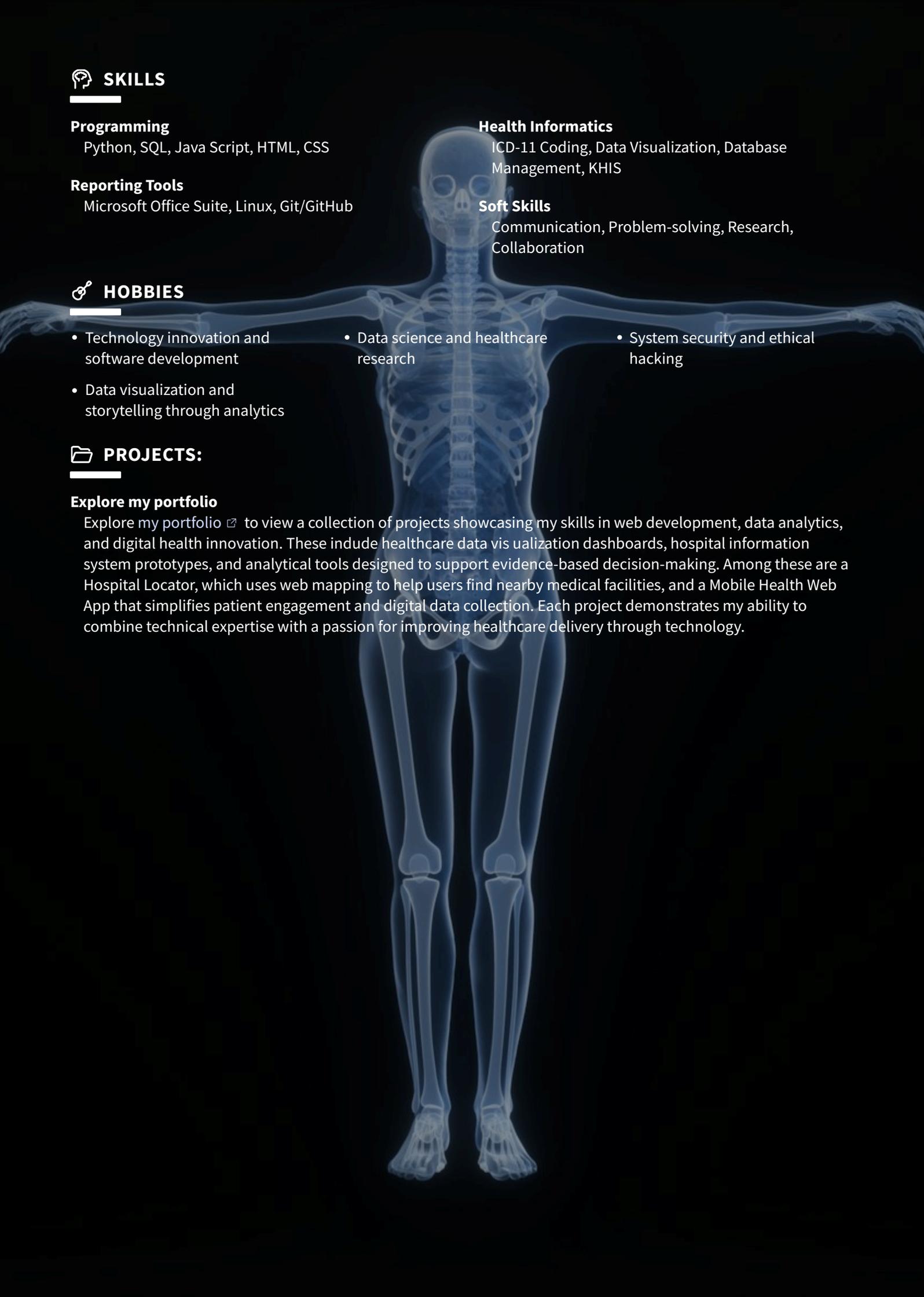
Kanjuri High School 2018 – 2022

Kenya Certificate of Secondary Education (KCSE)

Kenya Ministry of Health Virtual Academy 10/2025

Certificate in Health Information Systems Security Management

Focused on data protection, system access control, and digital health security practices.

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SKILLS

Programming

Python, SQL, Java Script, HTML, CSS

Reporting Tools

Microsoft Office Suite, Linux, Git/GitHub

Health Informatics

ICD-11 Coding, Data Visualization, Database Management, KHIS

Soft Skills

Communication, Problem-solving, Research, Collaboration

HOBBIES

- Technology innovation and software development
- Data science and healthcare research
- System security and ethical hacking
- Data visualization and storytelling through analytics

PROJECTS:

Explore my portfolio

Explore my portfolio [🔗](#) to view a collection of projects showcasing my skills in web development, data analytics, and digital health innovation. These include healthcare data visualization dashboards, hospital information system prototypes, and analytical tools designed to support evidence-based decision-making. Among these are a Hospital Locator, which uses web mapping to help users find nearby medical facilities, and a Mobile Health Web App that simplifies patient engagement and digital data collection. Each project demonstrates my ability to combine technical expertise with a passion for improving healthcare delivery through technology.