# Lewis Momanyi Nyakaru

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## EDUCATION

**Kenyatta University**                                                                                    Nairobi, Kenya
BSC Bachelors in Science Mathematics and Computer Science              August 2021 - December 2025

## WORK EXPERIENCE

**Dukatech**                                                                                               Nairobi, Kenya
*Front-end Developer*                                                                              May 2024 - August 2024

- At Dukatech Company, I designed and implemented the frontend for the Soma App, an innovative e-learning platform. I developed the mobile version using Flutter and the web version using React, showcasing my expertise in modern frontend technologies.

## SKILLS

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|---|---|
| Front-end Development: | Vite, React, HTML, CSS, Tailwind CSS |
| Back-end Development: | Node & Express, Django, Flask |
| Databases: | MongoDB, SQL, MySQL, PostgreSQL |

## PROJECTS

**Information Management System** *React, Python(Django), PostgreSQL, Docker( containerization)*
The Information Management System (IMS) is a centralized software solution designed to store, organize, and retrieve data efficiently. It replaces manual record-keeping with a secure, structured database, enabling users to add, search, update, and export information seamlessly. Key features include role-based access control, advanced search filters, automated reporting (PDF/Excel), and audit logs for tracking changes. Ideal for businesses, schools, and libraries, the IMS enhances productivity by reducing errors and speeding up data retrieval. Built with modern technologies like Python (Flask/Django), MySQL/PostgreSQL, and a responsive web interface, it offers scalability for diverse organizational needs. A smarter way to manage information

**Mytutor** *React, SQL, Express, Docker( containerization)*
I created My Tutor, a platform that connects students and tutors. Tutors can register their details (e.g., name, age, qualifications), while students can book tutors. Once a tutor is booked, they cannot be booked for the same period. The project uses React for the frontend, Express for the backend, SQL for the database, and JWT tokens for authentication.

**Cypto Tracker** *Vite, React, Express,MongoDb*
This is a crypto platform that tracks cryptocurrencies, displaying real-time data and interactive graphs for users to monitor market trends.

**Soma App** *React(website),Docker( containerization), Dart(flutter), Flask*
SOMA is an interactive mobile application built with Flutter (frontend) and Python/Flask (backend), designed to help primary school students (Grades 1–7) learn through gamified quizzes. Students select a subject and topic, answer questions, and earn points for correct answers. After completing a quiz, they can review mistakes with correct solutions. The system includes a companion website for teachers/admins to input and manage questions and answers. Key features include grade-specific content, real-time feedback, and performance tracking. SOMA enhances engagement by combining education with rewards, making learning fun and effective for young learners.

## AWARDS

**IBM Data Science Practitioner Certificate**                                                                        IBM
I earned the IBM Data Science Practitioner Certificate, demonstrating proficiency in data analysis, visualization, machine learning, and Python programming, along with hands-on experience using real-world datasets and tools like Pandas, NumPy, and Jupyter Notebooks. This is the link to the certification
https://www.credly.com/badges/018324a2-d808-455d-9452-6c58cc0c9d76                                      August 2023

**IVE DESIGN CHALLANGE**                                              Innovation Education Kenyatta University
The Information Management System (IMS) for Kenyatta University's Design Studio, Cezeri Lab, and MedTech Lab is an offline-first platform designed to streamline lab operations through role-based access control (admins, technicians, students), real-time inventory tracking (QR/barcode tags, maintenance alerts), and cross-lab resource sharing. It features project management tools, equipment booking with conflict detection, and secure offline data storage (encrypted backups, local servers). Winning the IvE Design Challenge, this system replaces manual processes, reduces equipment misuse, and enhances collaboration—all while operating reliably without internet. Next steps include scalable development (Python/Django + SQLite) and stakeholder testing.                                                          March 7th 2025