

Loyce Mapenzi Kalume

Software developer
(Software Engineer)

Profile

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P.O. BOX

I am a software developer who loves to learn and experiment. My experiences have served me well in developing good problem-solving skills and becoming a team player with an eye for detail to find creative solutions to evolving problems. I am driven to acquire proper hands-on skills in the up-to date programming languages and other considerations. I aim to become a proficient leader informed in software development.

Skills

Languages: Python, HTML, CSS, Bootstrap, Angular

Frontend: JavaScript, Typescript, React

Mobile: Java

Backend: Django, Express, Nodejs

Databases: Relational database (MySQL), Non-Relational databases (PostgreSQL), in-memory Databases (Redis),

Data Analysis: Python, Advanced Excel

Strong analytical and problem-solving skills

Excellent communication skills

Version Control: Git

Projects

Dedan Kimathi Internal attachment

January 2024- March 8

NYERI, KENYA

Spearheaded the development and deployment of Nyeri Town Online Bursary Application System for three months. This initiative is to optimize the application process for the students and administrators involving tasks such as; interface design and adherence to data privacy regulations.

Skills, tools & specializations: Front-end; HTML, CSS and JavaScript.

Backend: Node.js, Java.

Oracle, Git.

Emobilis Web Development Training

October 2024 – November 25

NYERI, KENYA

Designed and implemented a Sacco Management System as part of a project to enhance skills in web application development. The system allows customers to deposit, save, and manage their accounts securely. It features an intuitive interface, automated transaction processing, and optimized database interactions, providing hands-on experience in backend development and front-end integration.

November 2024

NYERI, KENYA

Skills, tools & specializations: Front-end; HTML, CSS and Bootstrap.

Backend: Python, Django, MySQL.

Git.

Project Presentation

Developed and deployed a Student Management System using Django, Python, and MySQL to streamline student enrollment, course management, and performance tracking. This project involved designing user-friendly interfaces, implementing secure data handling practices, and optimizing database interactions to ensure seamless functionality for students and administrators.

November 2024

NYERI, KENYA

Skills, tools & specializations: Front-end; HTML, CSS and Bootstrap.

Backend: Python, Django, MySQL.

Git.

Teach2Give Web Development Training

March 2025 – May 2025

NYERI, KENYA

During my software development attachment at Teach2Give I gained hands-on experience in full-stack development using HTML, CSS, Angular, JavaScript, TypeScript, Node.js, Express, and PostgreSQL. I also worked with Docker for containerization and implemented CI/CD pipelines to automate testing and deployment. This attachment provided practical exposure to both frontend and backend development while collaborating on real-world projects in a team environment.

Certification Project

For my certification project, I developed SkillMatch AI, a web-based job matching platform that connects employers with suitable jobseekers. The system allows users to register based on their role (employer or jobseeker), manage profiles, and view job listings or applications. I implemented the frontend using Angular, HTML, and CSS, and built the backend with Express and PostgreSQL, ensuring secure authentication and role-based access. The project focused on real-time data interaction and provided a seamless user experience for both employers and jobseekers.

Library Management System

May 2025 – June 2025

NYERI, KENYA

While teaching myself React, I independently developed a Library Management System to strengthen my frontend development skills. The project involved designing a user-friendly interface, integrating with a backend API, and implementing key features such as user authentication, book borrowing, and role-based access control. This hands-on experience deepened my understanding of component-based architecture, state management, and modern frontend workflows.

Education

Dedan Kimathi University of Technology / Degree

AUGUST 2022- PRESENT

Bachelor of Science in Computer Science.

Organizations

Google Developer Groups / Nyeri

NOVEMBER 2022 - PRESENT

A community of passionate developers interested in learning about and building with google technologies.

Responsible Computing and Ethics Club (RECEC)/Nyeri

MARCH 2024 -PRESENT

A club of passionate and responsible developers who are interested in building software as they abide to ethics.

Career Objectives

To work as a software developer applying my knowledge in the field of development, designing, testing, analysis and maintenance to cater to the specific needs of the people.

I wish to work in a team of motivated individuals who wish to work towards the advancement of the company and its goals.