

Karen Kanana Muthomi

Full-stack Software Engineer

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Nairobi, Kenya

SUMMARY

A proactive, hard-working, and enthusiastic full-stack Software Engineer, driven by a deep desire to utilize my skills in order to develop elegant solutions that not only meet business needs but also drive positive change. I am passionate about using technology as a catalyst for transformation, whether it's revolutionizing user experiences, streamlining processes, or addressing societal challenges. By harnessing my expertise, I aim to bring about meaningful and impactful change, ultimately shaping a better future through innovative software solutions.

SKILLS

- Modern JavaScript (ES6, ES7, TypeScript)
- React JS
- Node.js
- Ruby and Sinatra framework
- Ruby on Rails
- HTML, CSS (Tailwind, Bootstrap)
- Web Technologies (RESTful APIs, JSON, XML)
- Relational and Non-relational databases (MySQL, PostgreSQL, MongoDB, Firebase)
- Prototyping & Wireframes (Figma, Webflow)
- Version Control (Git and Github)
- Soft Skills - Excellent communication skills, Problem solving, Critical thinking, Collaboration, highly flexible and adaptive

PASSION PROJECTS

Learning Management System

The project aims to accomplish the feat of making physical education completely accessible online while maintaining the same level of educational quality. The concept involves having an entirely online school that accomplishes what the on-site school does. Including communicating with instructors and peers, having access to notes and materials, taking attendance and conducting regular roll calls, completing exams and other tests, etc.

E-Commerce Website

The project aimed to design and develop an ecommerce website for a sports shop that provides a seamless user experience with easy navigation, streamlined checkout process, and product information. The website showcases a wide range of sports products, offers secure payment options, and focuses on increasing sales through targeted marketing strategies.

Kibandaski Web Application

Kibandaski is a web application that allows users to order meals and pay for them at the comfort of their homes. As a full-stack software engineer, I was responsible for designing and develop an intuitive interface that is easy to navigate, displays menu options, and offers secure payment options. My role was to ensure a seamless user experience from start to finish, making the process of ordering and paying for meals as simple and efficient as possible.

WORK EXPERIENCE

Freelance Full-stack Software Engineer

February 2023 - Present

- Design and develop web applications and services using HTML, CSS, JavaScript, React, Ruby, Ruby on Rails, and other web technologies.
- Write clean, maintainable, and efficient code that is well-documented and adheres to industry standards.
- Collaborate with cross-functional teams to design, develop, and launch new features and products.
- Ensure the technical feasibility of UI/UX designs and optimize applications for maximum speed and scalability.
- Participate in code reviews and contribute to technical documentation.
- Troubleshoot and debug issues and provide support to end-users.
- Develop and maintain project timelines, budgets, and other project-related documentation.

Key Accomplishments:

- Developed a new application using React and Ruby on Rails that increased client satisfaction by 20%.
- Improved the performance of existing applications by optimizing SQL statements and implementing best practices, resulting in a 15% increase in efficiency.
- Working collaboratively with clients and developers to ensure successful project outcomes.

Software Engineer Intern | COSEKE

April 2021 - April 2022 | Nairobi, Kenya

- Developed software solutions using various programming languages and frameworks.
- Worked on the design and implementation of relational database schemas to support business requirements.
- Authored SQL statements for CRUD operations and analyzed them for optimization.
- Worked with source code repositories to manage version control.
- Collaborated with cross-functional teams to ensure successful project delivery.

Key Accomplishments:

- Designed and implemented a new database schema for a client that improved data management by 30%.
- Successfully integrated a new third-party tool into an existing application, resulting in a 25% increase in functionality.

EDUCATION

Moringa School | Software Engineering

February, 2023

- Software Engineering Certification

Jomo Kenyatta University of Agriculture and Technology | Bachelor of Science in Information Technology

June, 2022

- Second Class Honors

Moi Girls' High School - Eldoret | Kenya Certificate of Secondary Education
December, 2017

- Overall Grade, B+ (72 Points)

Volunteer Experience

- **President's Award Scheme Assessor**

I was in charge of conducting interviews, assess participants' skill development, and verify their community involvement. I also provided guidance and feedback to participants throughout the program and supported them in achieving their goals.

- **Member, Effective Altruism**

I contribute to Effective Altruism by undertaking technical projects for nonprofits, developing software solutions and websites, and creating custom tools. My aim is to help these organizations achieve their goals more efficiently in areas like global health, poverty alleviation, and education, using evidence and reason to make a positive impact.