

# Emmanuel Otieno

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[\[LinkedIn\]](#) | [\[Github\]](#) | [\[Portfolio\]](#)

## SOFTWARE ENGINEER

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My professional journey has been marked by a relentless pursuit of excellence in software development, driven by a deep-seated belief in the power of clear, well-documented code. I am deeply invested in adhering to best practices that enhance readability, scalability, and reliability of applications.

### TECHNICAL SKILLS

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- **Languages** - JavaScript, Python
- **Frameworks** - React, Node.js, Flask, Next.js
- **Developer Tools** - Git, Docker, VS Code, PyCharm
- **Database Management Systems** - PostgreSQL, SQLite, MongoDB

### TECHNICAL PROJECTS

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#### Nichangie- [\[Repository\]](#)

NodeJS, ReactJS, PostgreSQL, DarajaAPI

Developed a comprehensive crowdfunding platform designed to facilitate fundraising campaigns for various projects and causes.

- Utilized React for building a dynamic and responsive user interface, enabling users to create campaigns, contribute to existing ones, and manage their contributions efficiently.
- Implemented Node.js and Express.js on the backend to handle server-side logic, including authentication, database operations, and integration with external APIs.
- Integrated PostgreSQL as the primary database to store project details, user information, campaign contributions, and other critical data securely and efficiently.
- Incorporated the Daraja API for secure and reliable payment processing, allowing contributors to donate funds seamlessly through the platform.

#### CareConnect Healthcare Management System- [\[Repository\]](#)

React.js, Flask, Python, SQLAlchemy, JWT

Developed a comprehensive healthcare facility application to modernize patient care and administrative processes.

- Implemented a full-stack solution using React.js for the frontend and Flask with SQLAlchemy for the backend, ensuring a responsive and efficient user experience.
- Created a role-based authentication system using JWT, allowing secure access for both patients and healthcare administrators.
- Designed and implemented RESTful API endpoints for key features including appointment scheduling, service management, and patient record management.
- Collaborated in a team environment using Git for version control, contributing to various aspects of the application from conceptualization to implementation.
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### EXPERIENCE

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#### Herufi Technologies

Nairobi, Kenya

#### Software Engineer ( Intern )

My responsibilities included:

08/2023 - 12/2023

- Analyzing and understanding complex wireframe designs to identify key features and functionalities.
- Developing responsive web pages using HTML, CSS, and JavaScript frameworks such as React.js.
- Collaborating closely with designers and other developers to ensure that the final product met both aesthetic and performance standards.
- Participating in the full development lifecycle, from initial planning stages to deployment and maintenance.
- Continuously learning and applying best practices in web development to enhance project outcomes.

### EDUCATION

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#### Moringa School

Nairobi, Kenya

Full Stack Web Development, Python with Flask and JavaScript ( React ) program

08/2024

#### Kenyatta University

Nairobi, Kenya

Bachelor of Science (Computer Science)

12/2023