

# Kariaki Stephen

## Software Engineer

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### EDUCATION

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#### Holberton School

January 2023 - June 2024

*Software Engineering*

#### Relevant Coursework:

Data Structures and Algorithms, Software Design and Development, APIs, low level programming with C, System Engineering and DevOps, Software Development live cycle, High Level Programming (Python, JavaScript), Database Design, Technical Writing and Networking.

### EXPERIENCE

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#### ALX Africa

March 2024 - June 2024

*[Software Engineering Intern](#)*

- **Database Design and Optimization:** Delved deep into crafting efficient database architectures, ensuring peak performance for diverse applications.
- **C Programming Proficiency:** Commanded the intricacies of C programming, empowering me to engineer robust and reliable software solutions.
- **Python Expertise with Flask:** Leveraged Python and the Flask framework to craft dynamic web applications, including a meticulous Airbnb clone and musicIO a full-stack music platform.
- **JavaScript ES6:** mastered JavaScript HTML5 and CSS3 to build dynamic web pages, also used JavaScript in building musicIO.
- **DevOps Mastery:** Embraced DevOps methodologies to streamline development pipelines, fostering seamless collaboration and accelerated deployment cycles.
- **Data Structures and Algorithms:** Developed a keen understanding of data structures and algorithms, enabling elegant solutions to complex problems.

### PROJECTS

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#### Quick Mart | [Mongodb](#), [React](#), [Nodejs](#), [Expressjs](#):

[Github](#) | [Demo](#)

- Developed a comprehensive e-commerce platform featuring an admin dashboard and role-based authentication.
- Integrated Paystack for secure payment processing and Implemented a rich text editor for product descriptions and a robust inventory management system.

## Linux Shell Program | C:

[Github](#) | [Demo](#)

- Developed a C program designed to interface directly with the Linux operating system, enhancing system interaction and control.
- Collaborated with a peer from Kenya on a project that included rigorous error checking and the implementation of core functionalities such as ls, cd, and mkdir.

## MusicIO | Python, Flask, JavaScript:

[Github](#)

- Led a three-person team in developing a music application that enabled features such as playlist sharing, song uploads, and user interactions including likes and favorites
- Developed robust APIs to ensure seamless data integration and interaction between the frontend and backend systems

## Facebook Clone | HTML5 | CSS3 | JavaScript:

[Github](#) | [Demo](#)

- Developed a static page social media clone, providing a simplified yet functional interface for user interaction and content sharing.
- Enhanced user customization by enabling adjustable font sizes and a toggle feature for switching between dark and light themes.

## SKILL

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- **Programming Languages:** Python, C, C++, HTML, Javascript, Typescript, CSS, My SQL, Golang
- **Frameworks:** ReactJS, NextJS, Flask, ExpressJs, NodeJs
- **Libraries:** Framer Motion, TailwindCSS
- **Platforms:** Linux, Web, Windows
- **Tools:** Git, Github, Docker, Vercel
- **DBMS:** PostgreSQL, MySQL, SQLite, MongoDB
- **Gen AI:** OpenAI, Gemini
- **Soft Skills:** Leadership, Event Management, Public Speaking, Writing, Time Management

## INTERESTS

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**Languages:** English (Native)

**Additional Interests:** Mathematic, Physics, Chess, Web3