

# Fredrick Simi

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GitHub: <https://github.com/fredricksimi>

Bringing over 3 years of experience of achieving ambitious goals within challenging Technology environments. Highly dedicated and motivated professional, with a passion for using new thought processes and principles to find better ways to solve problems and bring the most out of technology. Using unique techniques from software development, cloud engineering, User Interfaces, User Experiences, Automation and Teamwork.

## EXPERIENCE

### Lead Instructor

Feb 2023 - Present

Code First Girls, London (Remote)

- Worked as a Lead Instructor at Code First Girls, providing free coding courses to women and non-binary individuals and contributing to the organization's mission of promoting diversity and inclusivity in tech.
- Leveraged expertise in Python, JavaScript, React.js, Git, MySQL and backend development to teach coding concepts and best practices to students, including data structures, algorithms, and object-oriented programming.
- Collaborated with other instructors and volunteers to design and deliver curriculum materials, lesson plans, and assessments that aligned with the organization's pedagogical goals and standards.
- Assisted students in troubleshooting code errors and provided personalized feedback on their work, ensuring that they received the support and guidance needed to succeed in the program.
- Contributed to the organization's outreach efforts by participating in events and networking opportunities, promoting the program to potential students and partners, and sharing insights on the importance of diversity and representation in tech.

### Backend Developer

Aug 2022 - Nov 2022

ELAN Dome Consultants, Nairobi

- Designed, developed and maintained the backend architecture of the educational consultancy firm's online platform using Python and Django, ensuring its stability and scalability.
- Worked closely with the frontend development team to integrate the backend with the user interface built with HTML, CSS & React.js, and implemented RESTful APIs to facilitate communication between the two layers.
- Implemented custom business logic and algorithms to support the firm's core functionalities.
- Optimized the database schema and queries for efficient data storage and retrieval, resulting in faster application performance and improved user experience.
- Collaborated with the quality assurance team to write unit tests, integration tests, and end-to-end tests for the backend components, ensuring the quality and reliability of the software.

### Backend Developer

Apr 2022 - Aug 2022

Pamoja Community Based Organisation, Nairobi

- Developed and maintained web applications using Python and Django for a Non Profit Organization.
- Designed and implemented scalable, secure, and efficient backend systems using Django ORM, MySQL and PostgreSQL database.
- Created and integrated APIs for data retrieval and manipulation, utilizing RESTful architecture.
- Worked closely with the design team to ensure consistent UI/UX across all pages and features.
- Implemented testing and debugging processes to ensure high quality and error-free code.

- Integrated third-party services and tools to enhance website functionality and user experience.
- Contributed to the development of new features and improvements to existing ones, based on user feedback and analytics.
- Ensured website accessibility and compliance with web standards and regulations.
- Documented code and provided technical support to internal and external stakeholders.

## **Web Developer**

Nov 2021 - Apr 2022

EPIC Consultants, Nairobi

- Designed and developed web applications using Python and Django, ensuring high-quality code and efficient performance.
- Worked closely with clients to understand their requirements and translate them into technical specifications and project plans.
- Built and maintained backend systems, including database design, API development, and integration with third-party services.
- Developed and implemented automated testing and deployment processes, improving code quality and accelerating the development lifecycle.
- Optimized application performance by identifying and addressing performance bottlenecks, including database queries and application architecture.
- Managed version control using Git, ensuring all code was properly documented and organized for easy maintenance and future development.
- Participated in code reviews, providing constructive feedback to colleagues and incorporating feedback into future development efforts.

## **Backend Developer**

Feb 2021 - Apr 2022

StepWise, Nairobi

- Developed and maintained scalable backend applications using Python and Django.
- Worked closely with the front-end development team to ensure seamless integration and optimal performance of the backend applications.
- Implemented various features such as user authentication, authorization, and database integration for internal and external clients using Django.
- Optimized database queries and implemented caching to improve application performance and reduce load times.
- Developed and maintained RESTful APIs for communication between various applications using Django Rest Framework.
- Created and maintained unit tests and integration tests to ensure the quality and reliability of the applications.
- Participated in code reviews and provided feedback to other developers to ensure code quality and maintainability.
- Used version control systems such as Git to manage and collaborate on codebase changes.
- Worked with project managers to prioritize and plan development tasks based on business requirements and deadlines.

## **Web Developer**

May 2020 - Dec 2020

Research Beeline Ltd., Nairobi

- Designed and developed a new web application for a research organization using Python and Django.
- Created RESTful APIs and integrated them with a backend database to enable seamless communication between the front-end and backend of the web application.
- Optimized the web application for performance by implementing caching strategies and fine-tuning database queries to improve response times.
- Worked closely with the research team to ensure that the web application met their needs and requirements.
- Presented progress updates to stakeholders regularly, demonstrating progress towards project goals.
- Contributed to the development of new features and functionality based on user feedback and requests.

- Successfully delivered a web application that met project goals and satisfied the requirements of the research team.

## **EDUCATION**

**Bachelor of Science (B.S.) - Computer Science**

## **LICENSES & CERTIFICATIONS**

**Cloud DevOps Engineer**

*Udacity - 5SSJFCPV*