

Winfred Mwendwa

Software Engineer

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🐙 <https://github.com/winfred-mwendwa>

Education

BSc Electrical and Electronic Engineering,

Jomo Kenyatta University of Agriculture and Technology

Relevant coursework: Computer programming

09/2017 – 06/2023

Nairobi, Kenya

Professional Experience

Software Engineer, Quikk API-Streamlined access to APIs in Africa.

11/2022 – present

Nairobi, Kenya

- Optimized the CI/CD pipeline for a 40% reduction in runtime, resulting in a decrease from 10 minutes to 6 minutes.
- Integrated analytics into the landing page and dashboard providing actionable insights that led to 25% increase in conversion and reduced drop-offs by 5%.
- Implemented component and end to end tests using Cypress leading to 30% reduction in post-release bug reports.
- Translated Figma designs into Angular code, resulting in a 95% adherence rate to design specs and a 20% increase in user satisfaction based on post-release surveys.
- Collaborated with the backend team to successfully integrate APIs, resulting in a 30% decrease in data retrieval time.
- Routinely migrated core dependencies to the latest versions and refactored deprecated features, resulting in a 25% reduction in critical security vulnerabilities.

Awards

Bronze Award, Efficiency for Access Design Challenge

06/2022

Contributed to a solar-powered baby incubator project addressing high infant mortality rates in Kenya; I specifically:

- Designed and programmed a precise control system using Arduino and C++ to regulate temperature and humidity in the incubator chamber.
- Conducted critical calculations to size and optimize the solar PV equipment with an overall system efficiency of 94%.
- Utilized AutoCAD software for rapid prototyping cutting down on project duration by at least 10%.

Skills

Software Development

Python, JavaScript, TypeScript, React, Angular, HTML, CSS, Bootstrap, C, C++, Docker

Version Control

Git, GitHub, Gitlab, CICD

Web Design

UI/UX Design, Responsive Design, Wireframing, Prototyping, Figma, SEO, Cross Browser Compatibility, Firebase

Testing and Debugging

Jest, Cypress