

SARAH ONCHABA

Software Developer

Dayton, MN

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SUMMARY

Results driven software developer with a strong foundation in web technologies and database systems, experienced in designing and implementing scalable applications. Proven ability to translate complex requirements into elegant solutions, recognized for teamwork, adaptability, and a commitment to continuous learning.

EXPERIENCE

Present-Ongoing	<div>Global Dashboard Insight (Personal Project)</div> <div>Built a lightweight Python + Streamlit dashboard unifying live <i>weather, air quality, and USD↔KES rates</i> for Nairobi using OpenWeather, WAQI, and Frankfurter APIs. Implemented an async API layer with httpx and asyncio for faster loads; added caching, error handling, and fallback states for reliability. Structured production-style code with services/, app/pages/, and .env for secrets, mirroring professional software practices. Designed a responsive UI with clear metrics and sidebar navigation, showcasing localization for Nairobi and extensibility for other cities. Strengthened expertise in API integration, data normalization, async performance, and deploy-ready architecture.</div>
April 2024 - July 2024	<div>System Administration Intern</div> <div>KENET (Kenya Education Network)</div> <div>Customized and maintained the organization website using Drupal 9. Migrated legacy content to the new platform, improving usability and accessibility. Collaborated with the NOC on system administration, troubleshooting, and monitoring. Ensured smooth content transfer, system reliability, and better user experience.</div>
September 2023 - May 2024	<div>Virtual Queueing System (Senior Project)</div> <div>HudumaQ</div> <div>Built a digital queue management system for Kenya public service centres. Backend with XAMPP (MySQL); development in VS Code. Implemented online ticketing & appointment scheduling to reduce wait times. Streamlined service allocation and improved customer service efficiency.</div>
September 2022 - May 2023	<div>Healthcare Chatbot (Junior Project)</div> <div>Developed a Python chatbot providing basic healthcare support. Conversational interface for fast answers to common health questions. Demonstrated tech's potential for bridging healthcare accessibility gaps.</div>

EDUCATION

2020 - 2024	<div>Kibabii University, Kenya</div> <div>Bachelor of Science in Computer Science</div>
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SKILLS

HTML

JavaScript

Visual Studio Code

CSS

MySQL

Strong problem-solving abilities

