Rhema Mutethia

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LinkedIn

DukaTech Solutions Limited   May 2024 to August 2024
Software Developer Attache   Nairobi

- Developed and documented RESTful APIs for various projects, ensuring seamless integration and functionality.
- Integrated and managed external APIs, including GPT API, Google Forms API, and internal APIs to enhance various application capabilities.
- Developed backend systems, focusing on creating robust application logic to support various project requirements.
- Designed and structured databases to ensure efficient data management and retrieval.
- Executed application tests to ensure functionality, reliability, and optimal performance for company products.
- Collaborated with team members to debug code, and perform code reviews and technical guidance to improve overall code quality.

The African Early Childhood Network (AFECN)   June 2022 to July 2022
Technical Support Assistant   Nairobi

- Provided Zoom IT support for virtual sessions, ensuring smooth connectivity and troubleshooting technical issues.
- Managed participant registration and handled inquiries during events
- Oversaw session management, including speaker coordination and timekeeping.
- Set up and managed breakout rooms for discussions and workshops.
- Monitored and compiled session reports, ensuring accurate documentation of event details.

SKILLS

- Proficient in Python (Django, Flask Frameworks).
- Experience in hardware, software, and network troubleshooting.
- Experienced with Git for version control and team collaboration.
- Excellent written and verbal communication.
- Strong attention to detail and troubleshooting skills.
- Strong problem-solving and technical support skills.
- Proficient in Web Development using HTML, CSS and Javascript.
- Proficient in SQL Database Management.
- Excellent written and verbal communication skills.
- Experience with Jira for Issue Tracking.

EDUCATION

Kenyatta University   Oct 2020 - Dec 2024
BSc. in Computer Science
Second Class Upper Division.

National Research Fund Kenya   July 2021 - Oct 2022
Certificate in Data Science with Python.

PROFESSIONAL PROJECTS

SIFAFX
A company appointment booking platform for clients to book forex trading platform experts. The project incorporated an admin dashboard to automatically add booked sessions to the admin's calendar and automated emailing to clients upon successful booking and a user webpage to book appointments.
Programming Languages and Tools: Python Flask, HTML, CSS, JavaScript, MySQL.

- Designed and developed the Database of the Web Application.
- Designed and developed the application logic for the Web Application.
- Hosted static assets to Cloudinary to reduce site load time.
- Deployed the website to a hosting server
- Mapped the domain name to point to the hosting server for seamless accessibility.

Link: sifafx.vercel.app

HARVESTHUB
A solution for the HelloTractor Hackathon in November 2024, this secondary e-commerce platform connects farmers and dealers to trade second-hand agro-implements. Key features include Google OAuth registration, buyer and seller platforms, an admin portal, real-time inventory management, and a wishlist.
Programming Languages and Tools: Python Flask, NextJs, PostgreSQL.
Role: Backend Developer.

- Designed and developed the Database of the Web Application.
- Designed and developed the application logic for the Web Application.
- Developed a robust RESTful API to enable seamless communication between the backend and frontend, ensuring efficient data handling and user interactions.
- Authored comprehensive API documentation with clear endpoints, parameters, and example responses to facilitate ease of use and integration for developers.

Link: HarvestHub.git

MUSICIANSCONNECT

A web application to connect Music Professionals to clients in Kenya. The website contains features such as Personalised Dashboards, M-Pesa Payment Gateway and a Ratings System.
Programming Languages: HTML, CSS, JavaScript and Django.

- Designed and developed the Frontend of the Web Application
- Designed and developed the Database of the Web Application.
- Integrated Daraja API payment gateway to facilitate in-app payment.
- Designed and developed the application logic for the Web Application
- Deployed the application to a hosting server.
- Utilised cdnjs for data visualisation and report generation on the admin dashboard.

Link: MusiciansConnect App

REVOLUTIONIZE ENGINEERING

Revolutionize Engineering is a transformative one-year project, "Revolutionize Engineering," aimed at building a community of 10,000 engineering students in Kenya, focusing on 4IR technologies. Developed a sustainable, industry-led training strategy, including hackathons to equip students with practical IT skills.
Programming Languages: React, Python (Flask), MySQL.
Role: Backend Developer

- Designed and developed the Database of the Web Application
- Designed and coordinated the development Application logic of the application.
- Integrated Google Forms API to trigger custom workflows based on form submissions.

Link: Revolutionize_Backend.git

HACKATHON SOLUTIONS

SOLARPAY

SolarPay was a solution developed for Africa's Talking Hackathon in September 2024, focused on clean energy solutions. The platform utilises Africa's Talking APIs to provide a USSD-based system for user registration, solar payment plan selection, and agent-based enrollment. It enables efficient payment processing, and user authentication, and supports the adoption of clean energy by offering an accessible, sustainable solution for underserved areas.
Programming Languages and Tools: Python Flask, HTML, CSS, React.
Role: Backend Developer

Position: 6 out of 18 Teams.

- Designed and developed the database to ensure efficient data storage and retrieval.
- Created RESTful APIs to enable seamless interaction between the frontend and database.
- Integrated Africa's Talking USSD API for user interaction via USSD prompts.
- Designed the application logic to implement user registration, payment plan selection, and agent-based enrollment.

Link: SolarPay Backend.git

CERTIFICATION AND TRAINING:

- BSc. Computer Science - Kenyatta University
- Data Science with Python by National Research Fund Kenya.
- AWS Cloud Practitioner Essentials.