Alex Njoroge Karanja

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SOFTWARE ENGINEER

As a junior software engineer, I am enthusiastic and creative, with a solid foundation in backend development, including hands-on experience with Python, Flask, and database management. I am passionate about building scalable and user-friendly web applications and am dedicated to enhancing my UI/UX design skills to ensure my solutions are both functional and visually engaging. Continuously learning and applying new technologies, I am eager to contribute to impactful projects as a strong team player with a knack for problem-solving and project management in a collaborative environment.

TECHNICAL SKILLS

- **Languages:** Python, JavaScript, SQL
- **Frameworks:** Flask, React, Node.js
- **Tools & Technologies:** RESTful APIs, JSON Web Tokens (JWT), Git, Docker, Heroku, Vite, Webpack
- **Databases:** PostgreSQL,MySQL,
- **Version Control:** Git, GitHub
- **Soft Skills:** Effective Communication, Team Collaboration, Problem-Solving, Adaptability, Time Management

TECHNICAL PROJECTS

TravelPlanner – GitHub

https://travel-agency-ten-pi.vercel.app/

Developed a full-stack web application allowing users to create and manage travel itineraries, book activities, and maintain a travel journal.

- **Built** a user authentication system using JWTs, ensuring secure login and session management.
- **Designed** RESTful APIs to manage itineraries, bookings, and user profiles, enabling seamless data flow between the frontend and backend.
- **Implemented** image upload functionality with file type validation and cloud storage integration, allowing users to upload and manage travel photos.
- **Integrated** caching for frequently accessed endpoints, improving performance and reducing load times.

Food Ordering System – GitHub(Ongoing Project)

An efficient web application designed to facilitate online food ordering and management for restaurants and customers.

- **Menu Management:** Developing an intuitive interface for restaurants to manage their menu items, including adding, updating, and removing dishes, and setting prices and availability.
- **Order Processing:** Building a streamlined order management system to handle customer orders, track order status, and notify users about order updates in real-time.

- **Review and Rating System:** Implementing functionality for users to leave reviews and rate their dining experience, helping future customers make informed decisions.
- **Backend Infrastructure:** Creating a robust backend using Flask to manage data flow, handle user requests, and maintain the integrity of the ordering system.

EXPERIENCE

Attachment :State law Office

Network Management

- Maintained and monitored the office's local area network (LAN) and wide area network (WAN) to ensure connectivity and secure communication between departments.
- Implemented and managed network security measures to protect sensitive legal information.

Technical Support

- Provided technical support to staff, including troubleshooting hardware and software issues, and offering guidance on IT-related queries.
- Installed and configured computer hardware, software, and peripherals.

EDUCATION

Moringa School
Full Stack Web Development, Python with Flask and JavaScript program
02/2024 -08/2024

Kabete National Polytectnic
Diplomma in ICT
2017 -2021