ISMAEL NYAMBU

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A dedicated and enthusiastic software engineering student with a strong foundation in Python, C, and JavaScript. Skilled in web development, DevOps practices, and source code management, with experience in creating data visualization tools, weather applications, and automation scripts. Passionate about continuous learning and contributing effectively in a collaborative environment.

Experience

DataViz Application Development

Role: Lead Developer
Description: Developed a comprehensive data visualization application enabling users to upload, view, and visualize datasets in CSV and Excel formats. Focused on creating a user-friendly interface while ensuring robust security, usability, and extensibility features.
Technologies Used: Python, Flask, HTML, CSS, JavaScript, Bootstrap.
Achievements:
- Successfully integrated security measures to protect user data.
- Implemented features allowing seamless data import and export.
- Received positive feedback from users for the application's intuitive design and powerful data visualization capabilities.

Weather Application Development

Role: Full-Stack Developer
Description: Designed and implemented a weather application providing real-time weather updates and a five-day forecast. Emphasized creating a reliable and user-friendly experience for end-users.
Technologies Used: Python, JavaScript, APIs for weather data, front-end frameworks.
Achievements:
- Developed an accurate weather forecasting algorithm.
- Enhanced user engagement through interactive and dynamic UI components.
- Ensured high availability and responsiveness of the application.

CLI YouTube Downloader Script

Role: Developer
Description: Created a command-line interface (CLI) script that allows users to download YouTube videos directly to their local storage. Focused on automation and ease of use.

Technologies Used: Python, Bash scripting.

Achievements:

- Streamlined the video downloading process with efficient scripting.
- Increased user convenience by eliminating the need for web-based downloaders.
- Delivered a reliable tool praised for its simplicity and effectiveness.

Interactive Quiz Application Development

Role: Full-Stack Developer

Description: Developed an interactive quiz application with role-based access control, enabling admins to manage quiz content and monitor student progress. Implemented features for students to take quizzes, track their scores, and receive feedback. Integrated a dark/light mode toggle for enhanced user experience.

Technologies Used: Python, Flask, HTML, Bootstrap.

Achievements:

- Built a secure authentication system for admins and students.
- Implemented a REST API for quiz management.
- Developed responsive and intuitive dashboards for both admin and student roles.

Skills

- **Programming Languages:** Python, C, JavaScript, HTML
- **Web Development:** Flask, front-end frameworks
- **DevOps Practices:** Continuous integration and delivery, Bash scripting
- **Source Code Management:** Git
- **Other Skills:** Data visualization, API integration, automation scripting, user interface design

Education

ALX Africa

- **Certificate in Software Engineering**
- **2023 - Present**