Name: Nsengiyumva Wilberforce

Contact Information:

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GitHub: nsengiyumva-wilberforce

Nationality: Ugandan

Summary:

Highly skilled and experienced full stack developer with 3+ years of experience in building and deploying web applications. Proficient in JavaScript, PHP, Laravel, Angular, apache Cordova and Ionic framework. Strong understanding of web development best practices, including performance optimization, security, and scalability. Proven ability to work effectively in both team and individual settings.

Technical Skills:

Languages: JavaScript, PHP, CSS, HTML, Java, C, Python

Frameworks & Libraries: Laravel, Angular, Apache Cordova, Ionic and CodeIgniter

Database: MongoDB, MySQL, Oracle

Operating System: Linux, windows

Collaboration Tools: Git, Github

Work Experience:

Full Stack Developer

Impactive Digital, Ntinda, Kampala, Uganda

January 2021 – December 2022

Developed and maintained Africa Water Solutions data collection application, resulting in 70% of their work efficiency.

Implemented new features, including image capture and geolocation features in data collection forms, using framework7 and apache Cordova.

Optimized website performance by implementing lazy loading and code splitting.

Collaborated with cross-functional teams to ensure the mobile application and their web dashboard was fully responsive and accessible for all users.

Software Developer, Outreachy (October 2022 – December 2022)

Contributed to open-source projects Git and Networkx by submitting pull requests and collaborating with project maintainers

Successfully had three pull requests merged and released in Networkx and one pull request merged in Git, resulting in valuable contributions to these projects

Demonstrated technical skills in coding, testing, and version control through participation in the open-source community

Engaged with the open-source community by reviewing and commenting on other contributors' pull requests, providing constructive feedback and suggestions

Full Stack Developer & IoT engineer

WIMEA-ICT Lab, Makerere University, Kampala

June 2021- August 2022

Built, deployed and maintained a website for AdEMNEA which was an undergoing project in the lab. The website helped the lab to advertise the scholarships that were being offered under the project.

Utilized Laravel to develop a custom CMS for the website.

Developed and implemented RESTful API's for data management and retrieval.

Worked closely with designers and project managers to deliver projects on time and within budget.

IoT System Developer, WIMEA-ICT LAB (June 2022- December 2022)

Contributed to the development of an IoT system for monitoring bee behaviors by providing input on architecture design and sensor selection

Helped the team to optimize the system architecture, leading to significant cost savings and project time reduction

Worked collaboratively with a team of developers to implement and test the system, ensuring accuracy and reliability of the data collected

Utilized technical skills in Raspberry Pi and sensor technology to monitor environmental parameters, such as temperature and humidity, in real-time

Education:

Bachelor of Science in Software Engineering.

Makerere University, Kampala, Uganda

Projects:

Personal Finance Tracker: A web application built using angular, Laravel, and MongoDB to help users track their expenses and income.

Online Marketplace: A web application built using Laravel and Angular that allows users to buy and sell products online.

Job Board: A web application built using Angular and Laravel that allows users to search for and apply to job listings.

Tumbiza: This an android audio player built using Ionic angular framework and capacitor.

Open Source projects: I have been making contributions to Git and Netwotkx since October 2022. This has helped me apply my skills on real world projects, built my communication skills and increased my time management skills

Awards

2021-2022 Huawei National and Sub-Saharan Africa competitions, Innovation Track Award winner. Under Kilotech Company, I pitched a Malaria and HIV diagnosis mobile application.

Interests

- Software engineer
- Data analysis
- Database Manager and Administrator

References

Nkurunungi Gideon, CEO, Impactive digital

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