John L. Maboko

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Highly skilled software developer with experience in maintaining in-house developed software systems, upgrading legacy systems, and leading the development of new software projects. Strong background in PHP and Laravel framework, as well as experience in web deployment, version control, and Agile development methodologies. Proven track record of success in gathering requirements, writing documentation and training junior staff. Led the development of REIMS, a web-based platform for ethical review, currently running at the highest health ethics committee in the country, receiving and processing over 2,000 applications. Possesses a BSc in Information Technology and Business Information Systems and an Advanced Diploma in Software Engineering.

Skills

- Programming with PHP & JavaScript
- HTML & CSS
- Laravel framework
- MySQL & PostgreSQL
- Wordpress & Joomla CMS

- Object-oriented programming
- Test-driven development
- Web deployment
- Version control
- Server administration with Linux and Windows operating systems

Experience

NOVEMBER 2018 – DECEMBER 2022

Computer Programmer / National Institute for Medical Research, Tanzania.

I was responsible for maintaining in-house developed software systems, as well as maintaining the facility's web, application, and database servers. I played a key role in upgrading legacy systems written in VB.NET to modern web applications using PHP as a primary programming language and the Laravel framework.

I was also responsible for gathering requirements for new systems or upgrades and modifications from key stakeholders, leading the development of some software projects while contributing to others. My role also included writing documentation such as software requirement specifications, system design documents, user acceptance tests and user manuals for developed systems.

I was a valuable team member in collaborating in inter-facility software projects and was also responsible for training interns and junior staff. Throughout my tenure, I demonstrated my ability to effectively manage complex projects and deliver high-quality results.

ACHIEVEMENTS:

- Leading software maintenance of REIMS (a system I'd developed as an intern) web application for managing ethical review processes written in PHP and the Laravel framework from 2018 to-date.
- Upgrading a laravel system that was running laravel version 5.6 to the latest version 9.
- Customizing separate instances of REIMS for several other clients including two top medical institutions and a research institute.
- Leading software development of a web application called eProcure for managing institutional procurement processes. The system was developed using PHP, Javascipt, MySQL and the Laravel framework.
- Speaking at a health research symposium on the role technology can play in health research.
- Training and onboarding interns on running software projects.

AUGUST 2017 – OCTOBER 2018
IT Intern / National Institute for Medical Research, Tanzania.

As an IT intern, I had the opportunity to work on various projects and gain hands-on experience in the field. One of my primary responsibilities was maintaining the center's computers, ensuring they were running smoothly and troubleshooting any issues that arose. Additionally, I was responsible for maintaining the facility's servers and network infrastructure, which includes maintaining web, application, and database servers, I had to ensure they are running efficiently and troubleshoot any issues that may arise. I was also responsible for redesigning, maintaining, and updating the center's website (www.nimr-mmrc.org), which involved working with various web development tools and technologies. I also had the opportunity to participate in running software projects, which allowed me to work in a team setting and contribute to the development and implementation of various software systems. Lastly, I provided IT help-desk support, which gave me the chance to assist users with technical issues and improve my problem-solving and customer service skills.

ACHIEVEMENTS:

- Developed a web application for managing health research ethical review processes (REIMS) that ended up running at the highest health research ethics board in the country.
- I was responsible for implementing spam filtering measures on the facility's mail server. Through my efforts, I wrote custom spam rules, introduced new checks, and set up DKIM and DMARC. These efforts led to a significant reduction of spam, resulting in a more efficient and secure email system for the facility.

AUGUST 2013 – JULY 2014
Database Programmer / National Institute for Medical Research, Tanzania.

As a database programmer, I was responsible for various tasks that were critical to the success of clinical trials. One of my main responsibilities was reviewing Case Report Forms before the trials began, ensuring that all the necessary information was included and that the forms were user-friendly. Additionally, I was responsible for designing desktop or web forms and underlying validation used during double-data entry. To ensure data integrity, I designed MySQL database tables that serve as a backend for the forms and wrote associated triggers. Furthermore, I was responsible for optimizing MySQL queries for performance, which was critical to ensure that the systems were running smoothly and efficiently.

Education

AUGUST 2015

BSc. Information Technology & Business Information Systems / Middlesex University, London

Grade: First Class

APRIL 2013

Advance Diploma in Software Engineering / Aptech Computer Education, Tanzania

Grade: Distinction

Referees

1. Dr. Nyanda Elias Ntinginya (MD, MSc, PhD)
   Principal Research Scientist
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