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MBATIA MUNIU

ABOUT

An applications developer working with Agile, I demonstrate my ability to design, develop, and implement a wide range of software solutions. My strong background in Object-Oriented Programming enables me to work adeptly with diverse programming languages and frameworks, both for web and mobile development. Notably, I have a proven track record of successful deployments on UNIX and Linux infrastructures, consistently driving project success. With expertise spanning full-stack development, project management, RESTful API development, and database design, I bring a comprehensive skill set to the table. I ensure seamless execution by leveraging tools like Docker for streamlined deployment, while relying on CircleCI and Github Actions for efficient continuous integration and delivery. Furthermore, my exceptional interpersonal skills and dedication to staying updated with emerging technologies foster efficient software development cycles and enable effective collaboration with cross-functional teams.

SKILLS

- PHP:** I possess strong PHP skills, including expertise in procedural programming and Laravel's ORM. I am adept at writing tests using PHPUnit and Laravel Dusk, ensuring quality code. Additionally, I have experience with Docker deployment using Laravel Sail. Furthermore, I am proficient in implementing CI/CD pipelines using Github Actions for seamless deployment. My diverse PHP skill set enables me to develop scalable APIs while maintaining a strong focus on quality and streamlined deployment processes.
- Python:** I have strong Python skills, specializing in web development with the Django framework. With Django, I build robust applications using its ORM, routing, and authentication features. I write tests using unittest to ensure code quality. Additionally, I am expanding my skills with the Kivy framework for cross-platform application development. With my diverse Python expertise, I am well-prepared to contribute to web development projects and explore new opportunities in application development.
- Javascript:** With a strong foundation in jQuery and expertise in React.js, I bring experience working with Node.js backend for about 3 years now,

complementing my proficiency in JavaScript. This enables me to excel in building dynamic and responsive user interfaces. Proficient in manipulating the Document Object Model (DOM), event handling, and effectively utilizing modern frameworks and libraries, I am committed to continuous learning and staying updated with emerging trends in both front-end and backend development.

EXPERIENCE

Keshonect Developers, Nairobi – *Full stack developer*

MAY 2017 – PRESENT

- Strategic planning and goal setting.
- Managing and overseeing projects from initiation to completion.
- Leading and mentoring a team of developers.
- Utilizing full-stack development skills to contribute to software development.
- Collaborating with stakeholders to gather requirements and manage expectations.
- Resource planning and allocation.
- Implementing and maintaining quality control processes.
- Budgeting and cost control for projects.
- Identifying areas for process improvement and implementing best practices.
- Generating reports and documenting project progress.

Techno Brain LTD (Microsoft Engineering Center), Nairobi – *Software Test Engineer*

APRIL 2021 – MAY 2023

- Testing features and functionalities of the latest versions of Windows updates.
- Conducting testing for Microsoft Azure services and solutions.
- Testing Internet of Things (IoT) devices for compatibility and performance.
- Developing and executing test plans and test cases.
- Identifying and documenting software defects and issues.
- Collaborating with developers and stakeholders to resolve identified issues.
- Participating in test automation efforts to improve testing efficiency.
- Conducting performance testing and analyzing system behavior under different scenarios.
- Ensuring adherence to quality standards and best practices.
- Providing feedback and recommendations for product improvement.

Lattice Interactive, Nairobi – *Backend Developer*

NOVEMBER 2019 – NOVEMBER 2020

- Designing and implementing RESTful APIs for data exchange.
- Database design and management using technologies like MySQL.
- Collaborating with front-end developers to integrate backend functionality.
- Writing clean and efficient code while following coding standards.
- Conducting thorough testing and debugging to ensure software functionality.
- Participating in code reviews and providing constructive feedback.
- Collaborating with the team to plan and execute project deliverables.
- Keeping up-to-date with emerging technologies and industry best practices.

Futures Net LTD, Nairobi – *Backend Developer(intern)*

AUGUST 2019 – FEBRUARY 2020

- Learning and adapting to object-oriented programming (OOP) principles.
- Transitioning from procedural PHP programming to Laravel framework.
- Assisting experienced developers in coding and debugging tasks.
- Participating in code reviews and receiving feedback for improvement.
- Collaborating with the team to develop and maintain Laravel-based projects.
- Gaining hands-on experience with Laravel's features and best practices.
- Conducting research and self-study to enhance understanding of Laravel and OOP.
- Assisting with documentation and knowledge sharing within the team.
- Actively participating in team meetings and discussions.
- Demonstrating a willingness to learn, adapt, and contribute to the development process.

EDUCATION

Jomo Kenyatta University of Agriculture and Technology, Kiambu – *Bachelor of Science(Mathematics and Computer Science)*

SEPTEMBER 2015 – APRIL 2019, JUJA

I had the invaluable opportunity to learn from my classmates and seek guidance from my knowledgeable lecturers. Collaborating with peers in group projects and discussions enriched my learning experience, allowing me to gain insights from different perspectives and sharpen my problem-solving skills through collective brainstorming. Furthermore, consulting with experienced lecturers provided me with valuable mentorship and guidance, helping me navigate complex concepts and challenging topics. The combined knowledge and support from both classmates and

lecturers fostered a collaborative and conducive learning environment, enabling me to grow both academically and personally.

eMobilis Technology Training Institute, Nairobi– *Certificate in Software Engineer*

January 2015 – MAY 2015, WESTLANDS

In this institution, I gained foundational programming knowledge and completed small projects, including the development of a Windows Phone application using C# and .NET Core Framework. This experience provided me with a solid understanding of programming fundamentals and allowed me to apply my skills in practical software development.

PROJECTS

1) **Taste of Manhattan:**

This is a project done using a *Laravel* API and *Angular* Frontend, which showcased diverse global cuisines for an establishment in Nairobi. It offers a user-friendly interface for exploring and sampling international flavors within the local context.

Link:<https://tasteofmanhattan.co.ke/>

2) **Device Inventory System:**

At the Microsoft Engineering Center, I was part of a team that developed a robust device inventory system using *Django* and *React.js*. This system revolutionized device management by enabling administrators to assign devices to teams, team leads to allocate devices directly to test engineers, and users to report issues seamlessly. Additionally, the implementation of QR code scanning added a convenient feature, allowing users to access detailed device information and assignment details effortlessly. This comprehensive solution optimized device tracking, allocation, and issue reporting processes, significantly improving efficiency and enhancing the overall user experience.

Link:<https://deviceinventory.keshonect.co.ke/>

3) **Hargeisa OGS system:**

This is a comprehensive hospital system created using *Flask REST* and *React.js* Frontend. It encompasses various departments and functionalities from the patient's arrival to discharge. The system included features such as patient management, appointment scheduling, medical records, billing and a payment gateway. It provides a seamless workflow for healthcare professionals and enhanced patient experience throughout their hospital journey.

Link:<http://hghobs.keshonect.co.ke/>

4) **Doca Cinema Concept:**

This was a streaming service concept for Documentary Africa, where the live stream could only be played and paused from the administrator's side. The service was built using *Laravel* REST API for the backend and Angular for the frontend. It was deployed on AWS EC2, and to handle an overload of clients, we implemented load balancing using EC2 autoscaling. This ensured a seamless streaming experience for users and improved scalability to handle increased traffic.

Link: docacinema.keshonect.co.ke/

5) Jijengee Website Builder:

This is a *Laravel* website builder that allows users to select templates from a list, customize them live, and save their settings. The user's details and settings were stored alongside their account information. To streamline the deployment process, we've implemented continuous integration using CircleCI. This automated the deployment process, ensuring that changes made by users were seamlessly integrated into the final website version. The concept aimed to provide an intuitive and efficient platform for users to create and customize websites with ease.

Link: <https://jijengee.keshonect.co.ke>

6) Funzi:

During the pandemic, we developed a user-friendly *Laravel* solution for schools that facilitated assignment and research paper distribution to students. The platform allowed teachers to mark and provide feedback on the assignments, sending the results back to the students. Additionally, students' parents were able to track their children's progress and stay informed about their academic performance. This solution aimed to streamline the assignment process, promote efficient communication between teachers, students, and parents, and provide a comprehensive overview of students' academic development.

Link: <https://funzi.keshonect.co.ke/>

7) Keshonect Developers Company Profile:

This is a company profile site for a visionary enterprise at the forefront of innovation and technological excellence. With a diverse range of expertise encompassing strategic leadership, project management, and cutting-edge software development, they are poised to revolutionize industries and create unparalleled solutions for businesses worldwide. Their team of accomplished professionals, led by dynamic directors, brings forth a wealth of experience and an unwavering commitment to excellence. They pride themselves on our ability to navigate complex challenges, foster collaborative environments, and deliver transformative results.

Link: <https://keshonect.co.ke/>

8) Ajar Trust:

This is a project done using *Laravel* and *jQuery*, enabling privileged users to edit the site live. This platform served an organization committed to

seeking justice for wrongfully convicted individuals, allowing real-time updates and efficient content management.

Link:<https://www.ajartrust.org/>

9) **Documentary Africa:**

This is a *Laravel* and *jQuery*-based platform that simplified the grant request process for documentary projects in Africa. The website served as a gateway for submitting grant applications, obtaining approvals, and receiving full payments efficiently and seamlessly.

Link:<https://documentaryafrica.org/>

10) **Sideways Metal Works:**

This is a company profile site for a metal works company using *Laravel*, *Angular.js*, and *AWS* deployment. The website showcased the company's products, providing an interactive platform for potential clients to explore their offerings.

Link:<https://sidewaysmetals.keshonect.co.ke/>

11) **Multimedia Systems:**

This is a *Laravel* company profile for a printing company with a showcase of all the designs and different dimensions of designs can be tried out.

Link:<https://multimediasystems.keshonect.co.ke/#>

VOLUNTEER EXPERIENCE

- ***GDG Web and Data Science*** - This is a platform where aspiring developers and data scientists in JKUAT get a chance to meet up every week and learn various skills from developers with experience and alumni of the school.
- ***Microsoft Tech Community*** - This is a platform where developers assist one another solve programming related issues and also assist one another in getting job opportunities.

REFEREES

- Njonjo Kiroga- Founder Lattice Interactive LTD-andrewnjonjo@gmail.com
- Dennis Weru - C.E.O- Keshonect Developers LTD - officialweru@gmail.com
- Cyprian Katana - Team Lead(Windows Servicing) - v-cykatana@microsoft.com