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Dan Mungai Waituika - Software Engineer

Personal Statement

I am an easy-to-work-with developer with excellent communication skills, adept at thriving in high-pressure environments. With a strong competence in cutting-edge web design and backend development, I possess a proven desire to deliver projects on time. Currently, I am actively seeking a mid-level to senior-level software development role in a progressive and dynamic environment. I am driven to extensively expose and expand upon my skill sets while contributing to the growth and success of the organization. My technical expertise, coupled with my ability to effectively communicate complex ideas, enables me to collaborate seamlessly with cross-functional teams and stakeholders. I have a track record of managing time efficiently, ensuring project deadlines are met without compromising the quality of work. With a growth mindset and a passion for continuous learning, I am committed to staying at the forefront of industry trends and advancements. Known for being a team player, I foster a positive and collaborative work environment, valuing diverse perspectives and contributing to shared goals. In pursuit of my career objective, I am excited to join a forward-thinking company where I can leverage my web design and backend development skills to create impactful solutions and drive organizational success.

Technical Skills

Good at — Python frameworks (Django, Flask, Tornado), Javascript frameworks (React, Angular, Vue, node), APIs(Rest Apis), Version Control(git), heroku, AWS, Data Analysis, Celery, Redis, Robotics, Markdown, Html, CSS.

Experienced — C++, IoT, Java, C.

Work Experience

Knowledge modeler and back-end Developer, Singapore— *LEDR technologies*

October 2023 - Current

As a Knowledge Modeler and Back-end Developer at LEDR Technologies, I play a pivotal role in advancing our technological capabilities. In the realm of knowledge modeling, I lead initiatives aimed at enhancing the efficiency of knowledge representation, retrieval, and application within the organization. Leveraging expertise in specific modeling techniques and methodologies, I contribute to the development of cutting-edge solutions tailored to our industry. Simultaneously, as a Back-end Developer, I take charge of pivotal projects, ensuring the seamless integration of robust and scalable solutions. Utilizing my proficiency in Python(django), I design and implement efficient backend functionalities to support core features and meet data processing requirements. My role also involves collaborative problem-solving with cross-functional teams, addressing complex technical challenges and optimizing system performance. In the pursuit of continuous improvement, I actively participate in testing, debugging, and adhere to best practices to enhance the overall efficiency of our backend systems.

- Spearheading knowledge modeling initiatives for efficient knowledge representation and retrieval.
- Leading back-end development projects, ensuring seamless integration of robust solutions.

- Collaborating with cross-functional teams to address complex technical challenges and optimize system performance.
- Utilizing expertise in Python(django) to design and implement efficient backend functionalities.
- Actively participating in testing, debugging, and adhering to best practices for continuous improvement.

Team Lead and Front-end Developer, Nakuru— *Smart People Africa*

November 2022 - November 2023

Led a critical project at Nakuru Water and Sanitation Company Limited, focusing on the implementation of a comprehensive Customer Identification Survey (CIS). Collaborated closely with cross-functional teams to develop and deploy a robust solution to enhance Nakuru Water and Sanitation Company's understanding of their customer base, optimize service delivery, and drive revenue growth.

- Spearheaded the planning, development, and execution of the CIS project, utilizing cutting-edge front-end technologies and methodologies.

- Built the frontend application using Flutter, a powerful and versatile framework for creating cross-platform mobile and web applications.

- Leveraged Flutter's rich widget library and reactive programming paradigm to design and implement an intuitive and user-friendly interface, ensuring seamless navigation and optimal user experience.

- Deployed the application using Firebase, a scalable and cloud-based platform, ensuring secure and efficient hosting, real-time database functionality, and seamless integration with other Firebase services.

- Implemented GitHub pipelines for continuous integration and deployment (CI/CD), streamlining the development workflow and ensuring reliable and efficient delivery of updates and features.

- Employed a data-driven approach to gather customer information, leveraging advanced survey tools and techniques to capture geographic data and measure satisfaction levels.

- Conducted in-depth data analysis to derive valuable insights and identify patterns, enabling Nawassco to make informed decisions regarding service improvements and resource allocation.

- Collaborated with stakeholders and senior management to identify key areas for service enhancement and prioritize actionable measures, leading to a significant increase in customer satisfaction and revenue generation.

- Oversaw a team of developers, providing technical guidance and support throughout the project lifecycle, ensuring timely deliverables and adherence to best practices.

- Maintained effective communication channels with cross-functional teams, ensuring seamless integration of front-end solutions with back-end systems and databases.

Team Lead and Full-stack Developer, Nakuru— *Smart People Africa*

January 2022 - May 2022

Led and actively participated in a significant project at Nakuru Water and Sanitation Company Limited, encompassing multiple objectives and leveraging a diverse technology stack to deliver innovative solutions.

Fleet Management:

- Collaborated with cross-functional teams to install trackers and integrate the system with the existing ERP using Java as the backend technology.

- Developed robust APIs to ensure seamless communication and data synchronization between the fleet management system and the ERP solution.

- Implemented advanced data processing algorithms to provide real-time tracking, monitoring, and analysis of vehicles, optimizing resource allocation and operational efficiency.

Supply and Installation of QR Codes:

- Led the development of a comprehensive solution using a Flutter framework, employing Java for the backend.

- Successfully installed and customized QR codes for approximately 50,000 consumer water meters for Nakuru Water and Sanitation clients.

- Collaborated with a team to build a highly functional app that facilitated the binding and mapping of QR code values to customer account numbers.

- Ensured seamless integration with the existing ERP system, enabling efficient data transfer and synchronization, resulting in streamlined meter management processes.

E-board Software System:

- Utilized React as the primary frontend framework to develop an interactive and user-friendly E-board system.

- Collaborated closely with the Microsoft Dynamics backend team to seamlessly integrate the E-board system with their backend infrastructure.

- Implemented features that centralized and facilitated easy access to board duties, tasks, and crucial information.

- Designed and developed intuitive interfaces for document management, meeting schedules, and collaboration, enhancing board productivity and decision-making processes.

Throughout these projects, my technical expertise in Java, Flutter, and React played a pivotal role in delivering robust and scalable solutions. By seamlessly integrating disparate technologies and collaborating with cross-functional teams, I contributed to the successful implementation of the fleet management system, streamlined meter management processes through QR code integration, and enhanced board efficiency with the E-board system.

Full Stack Developer, Nairobi — *Smart People Africa*

September 2021 - December 2021

During my tenure at Smart People Africa, I actively contributed to the development of a confidential project targeting the B2C market. While the specifics of the project cannot be disclosed until its official release, I utilized my expertise in React and Node.js to build a robust and innovative solution.

- Collaborated closely with a cross-functional team to develop and implement a cutting-edge product for the B2C market.

- Leveraged React to design and develop intuitive user interfaces, ensuring a seamless and engaging user experience.

- Employed Node.js to build scalable and performant backend functionalities, supporting the product's core features and data processing requirements.

- Adhered to best practices and coding standards, ensuring clean and maintainable code throughout the development process.

- Worked closely with product managers, designers, and fellow developers to iterate on the project, implementing new features and resolving any technical challenges that arose.

- Contributed to the optimization and improvement of the solution through rigorous testing and debugging.

While the specifics of the project must remain confidential until its official release, I am proud to have played a significant role in its development by utilizing React and Node.js. My dedication and technical expertise were instrumental in delivering a high-quality product for the B2C market during my time at Smart People Africa.

Freelance Developer, Nairobi

June 2020 - August 2021

One notable project I undertook as a freelancer was YJobLink, a comprehensive system built with a full Django backend and frontend. The project involved integrating MongoDB for seamless database connections and efficient data management.

- Collaborated closely with the client to understand their requirements and conceptualize the YJobLink system, which aimed to facilitate job matching and recruitment processes.

- Developed the backend using Django, a powerful and versatile Python framework known for its scalability and robustness.

- Leveraged Django's ORM (Object-Relational Mapping) to seamlessly connect with MongoDB, a NoSQL database, for efficient storage and retrieval of job-related data.

- Designed and developed intuitive and user-friendly frontend interfaces using Django templates and modern front-end technologies such as HTML, CSS, and JavaScript.

- Implemented advanced search and filtering functionalities to enable users to easily find and apply for relevant job opportunities.

- Integrated authentication and authorization features to ensure secure access and protect sensitive user information.

- Implemented a comprehensive admin panel to enable efficient management of job listings, user profiles, and other relevant data.

- Conducted thorough testing and debugging to ensure the stability, performance, and reliability of the YJobLink system.

- Provided ongoing support and maintenance services to address any issues and enhance system functionality as per client requirements.

YJobLink stands as a testament to my proficiency in building end-to-end solutions using Django, integrating MongoDB for efficient data management, and delivering a seamless user experience. The project's success demonstrates my ability to utilize a combination of back-end and front-end technologies to develop robust and scalable systems for the recruitment and job matching domain.

Consultant, Nairobi — *Finesoft Afrika*

September 2019 - June 2020

During my consultation period, I had the opportunity to contribute to the development of Fineract applications tailored for microfinance companies and Savings and Credit Cooperative Organizations (Saccos). These applications involved a Java backend and utilized various JavaScript frameworks for the frontend, specifically Angular for web platforms and React Native for Android devices.

- Collaborated closely with microfinance companies and Saccos to understand their specific requirements and challenges in managing their financial operations.

- Developed a robust Java backend to handle the core functionalities of the Fineract applications, ensuring secure and efficient data processing, transaction management, and user authentication.

- Implemented Angular, a powerful and widely adopted JavaScript framework, to build the web frontend of the applications. This provided users with intuitive interfaces for account management, loan processing, and transaction tracking.

- Leveraged React Native, a popular framework for building native mobile applications, to create a seamless and performant experience on Android devices. This allowed clients to access the Fineract applications on their mobile devices with ease.

- Ensured seamless integration between the backend and frontend components, enabling real-time data synchronization and providing a consistent user experience across platforms.

- Collaborated closely with stakeholders and end-users to gather feedback and incorporate necessary enhancements to optimize the applications' performance and usability.

- Conducted thorough testing and debugging to ensure the reliability, security, and stability of the Fineract applications across different platforms.

- Provided comprehensive documentation and training materials to support users in effectively utilizing the applications and maximizing their benefits.

By developing Fineract applications using a Java backend and leveraging Angular for web platforms and React Native for Android devices, I helped microfinance companies and Saccos streamline their financial operations, enhance efficiency, and improve customer experience. These experiences have honed my expertise in integrating different technologies and frameworks to deliver scalable and versatile solutions in the fintech domain.

Interests

- Music: As a self-taught musician, I have dedicated time to learning how to play the piano and guitar. Through online resources, tutorials, and practice, I have honed my skills and continue to expand my musical repertoire.

- Photography: I consider photography as a hobby and have undertaken a few projects to further explore my passion for capturing captivating moments and beautiful landscapes. It allows me to express my creativity and appreciate the art of visual storytelling.

- Gaming: For a period of time, I ventured into the realm of gaming and started streaming as a way to share my gaming experiences with others. Although I eventually discontinued streaming, I still enjoy playing games as a means of relaxation and entertainment.

References

Sam Ngigi

Technical Mentor

Moringa school

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Peter Macharia.

Supervisor

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Tony Chumba

Project Manager

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