Manzi Niyongira Osee

Dedicated Software Engineer with **1+ years** of experience in full-stack development, specializing in backend and frontend technologies. Strong problem – solving skills, a proactive ownership mindset, and a proven ability to collaborate effectively within cross-functional teams. Passionate about continuous learning and adapting to new technologies to deliver innovative, scalable solutions

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GitHub:

https://github.com/manziosee

WORK EXPERIENCE

Bank of Kigali — Database and Datacenter Administrator Intern

Rwanda, Kigali onsite   sept 2024 - October 2024

- Authored technical documentation and defined database dependency specifications, supporting clear communication and streamlined processes for the database and network teams.
- Implemented efficient database backup and mirroring strategies using Microsoft SQL and Oracle Database, ensuring data redundancy and disaster recovery readiness.
- Configured and maintained Active Directory and Domain Name System (DNS) for optimized network operations, supporting secure and reliable user authentication and domain management.
- Managed Linux-based systems within the data center, performing essential updates and configurations to support high-availability database infrastructure.
- Monitored and analyzed database performance to detect and resolve bottlenecks, enhancing overall system reliability and speed.

Andela — Apprenticeship Software Engineer

Rwanda, Kigali Remote   Feb 2024 – sept 2024

- Authored technical specifications and documented application dependencies, facilitating clear communication and alignment among development teams.
- Streamlined project management by organizing tasks in Trello, ensuring timely delivery and resource optimization.
- Developed and prototyped user interfaces with Figma, enhancing the design process with intuitive layouts.
- Engineered backend and frontend components using HTML, CSS, JavaScript, TypeScript, and Node.js, contributing to the creation of high-performance web applications.
- Led initiatives to ensure application performance, quality, and responsiveness, driving code quality through regular reviews.
- Managed the design, installation, and maintenance of software systems, providing stable and scalable solutions.
- Supervised daily data backup and retrieval operations, maintaining data integrity and availability.
- Developed and executed unit and integration tests using Jest and Mocha, improving code reliability and reducing bugs.
- Documented and maintained APIs with Swagger, promoting clear and comprehensive API usage across teams.
- Facilitated seamless integration of frontend and backend systems, ensuring cohesive and functional user experiences.

TECHNOLOGIES
Stack

- **Backend:** Node.js, Express.js, TypeScript, Django, Spring boot
- **Frontend:** React.js, Next.js, HTML, CSS, SASS
- **Database:** MongoDB, PostgreSQL, MySQL, oracle
- **Testing:** Jest, Mocha, Chai, Cypress
- **DevOps & Infrastructure:** CircleCI, Render, Docker, **Active Directory, Domain Name System (DNS)**
- **Other:** Render, Postman, Firebase, Figma, Swagger, Trello, Jira, Asana

LANGUAGES

English:
C2(fluent)
Kinyarwanda:
Native
French:
intermediate

- Implemented continuous integration and continuous deployment (CI/CD) pipelines using CircleCI, streamlining development workflows and reducing deployment times.
- Leveraged GitHub and Git for version control, fostering efficient collaboration and robust version management.

Amalitech   **Django Backend Engineer Intern**

Rwanda, Kigali   April 2023 – Jan 2024

- Study how to Develop and maintain web-based applications using Python (Django) delivering reliable and scalable software solutions.
- Leveraged server-side technologies, including databases and RESTful APIs, to build efficient backend systems.
- Integrated third-party services and APIs, expanding the functionality of applications and enhancing user experiences.
- Utilized version control systems, including Git and GitHub, to manage codebases, streamline collaboration, and maintain code integrity.
- Authored comprehensive API documentation using Swagger, facilitating easy adoption and integration by internal and external developers.
- Established a REST API framework using Django, reducing development time and enabling rapid deployment of web services.
- **Implemented security best practices, including data encryption and access controls, to protect sensitive information and ensure compliance with industry standards.**

Solvit Africa   **Backend Engineer Intern**

Rwanda, Kigali   June 2022 - Sept 2022

- Developed web applications using Python (Django) and Node.js to contributing to several projects.
- Implemented server-side technologies, including databases and RESTful APIs, to deliver secure and efficient backend solutions.
- Utilized Python IDEs such as PyCharm and Vs code for streamlined coding and debugging processes.
- Managed code versions and collaborated with team members using Git and GitHub.
- Authored comprehensive API documentation using Swagger, ensuring clear communication of API functionalities.
- Established REST API frameworks with Django, accelerating the development of web services.

EDUCATION

Adventist University of Central Africa, Bachelor of Science in Software Engineering

Rwanda, Kigali

2019 – 2025

Relevant coursework: java, Data Structure, OOP, Python, Web Technologies, hibernate

PROJECTS

Ecommerce Django API
Backend Developer | 2022

- **Engineered a robust backend system using Python and Django, prioritizing security and scalability.**

- Designed and integrated RESTful APIs with frontend components, improving user interaction and data handling.

- Implemented automated testing, ensuring reliability and performance consistency across the application.

Link: https://github.com/manziosee/ecommerce-django-API

Twitter Analysis Using Django
Backend Developer | 2024

- Developed a Django-based application for analyzing Twitter data, providing insights into user sentiment and trending topics.

- Integrated the Twitter API to collect real-time data, ensuring up-to-date analysis and reporting.

- Implemented natural language processing (NLP) techniques to categorize and visualize sentiment, enhancing the decision-making process for users.

- Deployed the application on a cloud platform, ensuring scalability and availability for a wider user base.

Link: https://github.com/manziosee/SLS_ENERGY_Challenge

Makeup Selection Form
Frontend Developer | 2024

- Developed a React-based form that allows users to select and customize makeup options based on their skin type and preferences.

- Integrated a feedback system for makeup artists, enabling clients to rate and review the service provided, improving overall customer satisfaction.

- Implemented dynamic UI components that adapt to user inputs, providing a personalized experience for each client.

- Ensured seamless integration with backend services, ensuring that makeup selections and feedback are stored and processed efficiently.

Link: https://github.com/manziosee/form-project