

Vanessa Nassanga

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Professional Summary

Passionate and results-driven Software Developer with expertise in Python, Django, React JS, PostgreSQL, and CI/CD pipelines (GitHub Actions). Skilled in both front-end and back-end development, containerization with Docker, and robust software testing. Known for problem-solving, attention to detail, and a collaborative approach. Enthusiastic about embracing new challenges, leveraging modern technologies, and delivering scalable solutions. Always committed to learning and growing as a developer.

Technical Skills

- **Programming Languages:** Python
- **Frameworks & Libraries:** Django, React JS, Bootstrap, Tailwind CSS, Jest, Cypress
- **Databases:** PostgreSQL, MySQL
- **CI/CD:** GitHub Actions
- **Version Control:** GitHub
- **Containerization:** Docker
- **Cloud:** AWS
- **Agile Methodology:** Scrum
- **Project Management:** Trello
- **Design Tools:** Figma

Soft Skills

- Effective Communication
- Attention to Detail
- Problem-solving
- Collaboration & Adaptability
- Quick Learner & Critical Thinking

Professional Experience

Backend Developer Intern

Refactory Academy | *September 2024 - December 2024*

Technologies: Python, Django, React, Next.js, Prisma, PostgreSQL, GitHub Actions, Docker, AWS

Contributed to the development of **Refactory Information Management System (RIMS)**, a centralized platform for managing and accessing institutional data.

Key Contributions:

- Streamlined user registration and login processes, increasing user activation by 80%.
- Developed and optimized backend APIs to improve response time by 40%.
- Implemented automated CI/CD pipelines using GitHub Actions, reducing deployment errors by 30%.
- Containerized the system with Docker to ensure consistency between development and production environments.

Systems Administrator Intern

UMCAT School of Journalism | 2023

Provided technical support, ensuring smooth operation of the institution's IT infrastructure.

Key Contributions:

- Managed and maintained hardware and software systems, ensuring optimal performance.
- Supported network administration, ensuring secure and stable connections for users.
- Assisted journalism interns with Adobe Illustrator, enhancing their design skills.

Projects Experience

DayStar Day care Management System

Technologies: Python, Django, HTML, CSS, JavaScript, SQL Server

[GitHub Link](#)

A comprehensive system to replace DayStar Day care's paper-based tracking system, improving stock management and operational workflows.

Key Achievements:

- Designed a tailored system architecture that improved data organization by 50%.
- Enhanced security through authentication and access control measures.
- Migrated legacy paper records to a digital platform, reducing data entry errors by 40%.

Uplift for Donations

Technologies: Python, Django, JavaScript

[GitHub Link](#)

A donation platform to enhance donor engagement and streamline the donation process.

Key Achievements:

- Created user-friendly forms to simplify data collection and improve donation processes.
- Developed an "About Us" page with success stories to increase donor trust and engagement.
- Optimized workflows, resulting in a 30% increase in user contributions.

Personal Website Portfolio

Technologies: React JS, JavaScript

[Website Link](#)

A responsive portfolio showcasing my projects, skills, and professional background.

Key Achievements:

- Ensured responsive design for optimal user experience on all devices.
- Integrated interactive UI elements to engage users and demonstrate web development expertise.

Bakery Website

Technologies: HTML, CSS

[Website Link](#)

A simple static practice website created to practice HTML and CSS, showcasing a bakery's products and services.

Education

- **Certificate in Software Engineering (Python Development)** - Refactory Academy | Feb 2024 - May 2024
- **Bachelor of Science in Information Technology** - Uganda Martyrs University | 2020 - 2023

Languages

- **English (Fluent)**
- **Luganda (Native)**

References

1. **Ms. Leoni Rossberg** | Managing Director, Groundbreaker Talents Uganda
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2. **Mrs. Esther Nansubuga** | Program Manager, Groundbreaker Talents Uganda
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