

# Vanessa Nassanga

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## Professional Summary

As a dedicated Software Developer, I focus on creating, developing and managing software applications. With a strong grasp of programming languages and hands-on experience in both front-end and back-end development, I am skilled at solving complex problems with practical solutions. I pay great attention to detail and am committed to producing high-quality work. I am enthusiastic about exploring new technologies and staying updated with the latest trends in the industry. My ability to work well with others and communicate effectively makes me a valuable member of any development team.

## Technical Skills

- Python
- Django, React
- PostgreSQL
- CI/CD Pipeline: GitHub Actions
- Cloud Infrastructure: AWS
- Containerization in Docker
- Git, GitHub
- Trello management tool
- UI/UX Design
- Problem-Solving
- Lean and Agile Methodologies

## Soft Skills

- Effective Communication
- Attention to Detail
- Project Management
- Problem-solving
- Collaboration
- Adaptability

- Quick Learner
- Critical Thinking

## Experience

### Internship at Refactory Academy, September 2024 - December 2024

#### Refactory Information Management System (RIMS) (Ongoing)

**Role:** Backend Developer (with occasional role-switching to learn full-stack development)

**Description:** Developing a centralized system to manage Refactory Academy's data. The system replaces scattered Google Sheets with a scalable platform that centralizes data storage, enhances accessibility, and provides real-time information sharing. It supports students, staff, and administrators, allowing for student applications, application tracking, and data export functionalities for administrators.

**Technologies Used:** React (Frontend), Next.js, Prisma (Backend), PostgreSQL (Database), AWS (Cloud Infrastructure), Docker (Containerization), Git & GitHub (Version Control), GitHub Actions (CI/CD).

#### Expected Deliverables

- Deployed system with custom domain and SSL certificates.
- Refactored codebase for maintainability.
- Tested system with unit, integration, and end-to-end testing.
- Working Student Application module.
- Functionality to export applications to Excel.

### Internship at UMCAT School of Journalism and Mass Communication, 2023

**Role:** *Systems Administrator*

- **Maintaining Computers:** Ensured all computer systems were properly maintained and operational, focusing on both hardware and software troubleshooting.
- **Software Installation:** Installed and updated necessary software, ensuring all systems were up-to-date and secure.
- **Network Administration:** Managed the institution's network, ensuring stable and secure connectivity for all users.
- **Assisting Journalism Interns:** Helped students interning in journalism with Adobe Illustrator, guiding them in designing cards, magazines, and flyers, thereby enhancing their design skills and project outcomes.

## Project 1

## **DayStar Daycare Management System (February 2024 - May 2024)**

**Description:** Developed a comprehensive software system for DayStar Daycare to manage stock, data and overall operations, transitioning them from a paper-based system to a digital solution.

**Technologies Used:** Python, Django, HTML, CSS, JavaScript, SQL Server.

**Key Achievements:** Improved operational efficiency and accuracy in data management, leading to better service delivery.

**Github link:** [https://github.com/Vanessa-79/daystar\\_management\\_system.git](https://github.com/Vanessa-79/daystar_management_system.git)

## **Project 2**

### **Uplift for Donations (May 2024 - October 2024)**

**Description:** Developed a collaborative platform to facilitate donations, enabling users to contribute to various causes with ease and security.

**Technologies Used:** Python, Django, JavaScript.

**Key Achievements:**

- **Created Contributors and Donors Forms:** Designed and implemented forms to manage and collect donor and contributor information, ensuring a smooth and user-friendly donation process.
- **Developed 'About Us' page with success Stories:** Crafted the 'About Us' section, highlighting the organization's mission and featuring success stories to inspire and engage potential donors.
- **Streamlined Donation Process:** Enhanced user engagement and contribution rates by optimizing the donation workflow, resulting in a more efficient and accessible platform.

**Github link:** <https://github.com/Vanessa-79/life-changingNew.git>

## **Project 3**

### **Personal Website Portfolio(June 2024)**

**Description:** Designed and developed a personal portfolio website to showcase projects, skills, and professional background.

**Technologies Used:** React, JavaScript.

**Key Achievements:**

- **Responsive Design:** Created a fully responsive and visually appealing portfolio website, ensuring optimal user experience across various devices.

- **Interactive UI:** Implemented smooth transitions and interactive elements to enhance user engagement and demonstrate proficiency in modern web technologies.

**Link:** <https://vanessa-myportfolio.vercel.app/>

## Education

- Certificate in Software Engineering, Python Development, Refactory Academy  
February 2024 - May 2024
- Bachelor of Science in Information Technology  
2020 - 2023
- Uganda Advanced Certificate of Education, K.Garden Groove College  
2018 - 2019
- Uganda Certificate of Education, Blessed High School  
2014 - 2017

## Languages

- English
- Luganda

## References

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