

Joan Nandawula

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Professional Summary:

As a skilled Software Developer, I specialize in designing, developing, and maintaining software applications. With a strong foundation in programming languages and extensive experience in building both front-end and back-end systems, I excel in addressing complex issues with efficient solutions. My attention to detail and robust problem-solving abilities ensure high-quality results. I am passionate about learning new technologies and staying current with industry trends. My collaborative approach and effective communication skills make me a valuable asset to any development team.

Technical Skills

- Programming Language(Python)
- Frameworks and Technologies(Django, React)
- PostgreSQL
- Containerisation in Docker
- Database Management
- Version control(Github)
- Trello
- UI/UX Designer
- Problem-Solving
- Lean and Agile methodologies

Soft Skills:

- Effective Communication
- Attention to detail
- Project Management
- Problem-solving
- Leadership
- Collaboration
- Adaptability
- Quick learner
- Critical thinking

Experience

Software Engineering Apprenticeship, Personal Projects

Project 1

RIMS (Refractory Information Management System) September2024- December 2024

Scope: Developed a centralized data management platform for Refactory Academy, aimed at streamlining student and staff data handling, reporting, and administrative processes.

Technologies:

- Prisma: Utilized for managing the database backend.
- NestJS: Employed for building the API and handling backend processes.
- Vite: Integrated for frontend optimization and development.
- Docker Hub: Used for containerizing and managing production environments.
- Cypress: Conducted end-to-end testing to ensure a robust and error-free application.

Design and Layout:

- Ensured a responsive and clean design across all devices using modern frontend technologies.
- Focused on maintaining consistency across different modules, including student application, user permissions, and staff management.

Dynamic Content Management:

- Implemented dynamic data handling using Prisma and NestJS to allow for real-time data updates.
- Centralized the data from disparate systems like Google Sheets into a single, unified platform.

Form Handling:

- Integrated functional forms for user authentication, data entry, and submission, using Django's form-handling capabilities in early development.

Testing and Optimization:

- Extensively tested with Cypress to ensure reliable end-to-end functionality.
- Set up CI/CD pipelines to automate testing and deployment processes, ensuring smooth integration.
- Designed with user feedback in mind to meet the specific needs of Refactory Academy's staff and students.
- Simplified workflows for data access, submission, and report generation, improving overall user engagement.

Project 2

DayStar DayCare March 2024 - June 2024

Project Scope:

- Designed a comprehensive and user-friendly website for Daystar Daycare.

- Aimed to enhance the daycare's online presence and facilitate easy information access for users.

Technologies:

- **Bootstrap 5.3.3:** Used for creating a responsive and visually appealing design framework.
- **Django:** Utilized for backend development, managing static files, and rendering dynamic content.

Design and Layout:

- Implemented a responsive layout to ensure compatibility across various devices (desktops, tablets, smartphones).
- Focused on a clean and intuitive design to improve user navigation and engagement.

Dynamic Content Management:

- Integrated Django's static files system to handle images, CSS, and JavaScript files.
- Used Django's template system to dynamically generate content, allowing for easy updates and management of daycare information.

Form Handling:

- Employed crispy forms to enhance the visual appeal and functionality of forms.
- Simplified user interactions for tasks such as contact submissions and inquiries.

Testing and Optimization:

- Conducted thorough cross-browser testing to ensure functionality across different web browsers.
- Optimized website performance by reducing load times and ensuring fast, reliable access to content.

User Experience:

- Designed with a focus on user experience, incorporating feedback to meet the needs of the daycare's audience.
- Ensured the website was easy to navigate and provided a positive user experience

Project 3

Portfolio website

- Designed and developed a personal portfolio website to showcase skills, projects, and contact information. Used Bootstrap for responsive design, custom CSS for unique styling, and JavaScript for interactive features. Ensured cross-page consistency and optimized performance for a seamless user experience across all devices..

Education

- Certificate in Python Development, Refactory Academy February 2024 -June 2024

- Advanced Certificate of Software Engineering, Refactory Academy February 2024 - December 2024
- Uganda Advanced Certificate of Education, St Mark's College Namagoma 2021 - 2022
- Uganda Certificate of Education, St Mark's College Namagoma 2016 - 2019

Languages

- English
- Luganda

References

1. Ms. Dorothy Oyella

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2. Ms. Esther Nansubuga

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