

## **KANZA JOY JOVITA**

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### **PROFESSIONAL SUMMARY**

As a skilled Software Developer, I specialize in designing, developing, and maintaining software applications. With a strong programming foundation and experience building both front-end and back-end systems, I excel in addressing challenging 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 Languages:**

- Python

#### **Frameworks & Technologies:**

- Django
- Flask
- Nestjs
- React
- Typescript

#### **Database Management:**

- MongoDB
- SQLite
- Postgres

#### **Version Control:**

- GitHub

### **Soft Skills**

- Problem-solving
- Analytical thinking
- Effective Communication
- Attention to detail
- Project Management
- Leadership
- Collaboration

- Adaptability
- Quick learner

#### **Other Skills:**

- Debugging Techniques
- Web Development
- Agile Development Methodologies
- Software Development

### **Professional experience**

#### **Project 1**

##### **Refractory Academy**

##### **Refractory Learning System (September 2024 - December 2024)**

**Description:** The Refractory Learning System (RLS) is a centralized online learning platform that supports both self-paced and facilitated learning, providing accessible courses, resources, and interactive features for learners while enabling efficient course management for administrators and facilitators.

**Technologies:** Nestjs, React, MongoDB, Git.

##### **Key Contributions:**

- Developing the Refractory Learning System (RLS) using NestJS, React, and MongoDB, ensuring scalability, performance, and a seamless user experience for learners and administrators.
- Implementing RESTful APIs to manage course content, user authentication, and interactive features, optimizing both backend efficiency and frontend responsiveness.
- Collaborating cross-functionally with my team and product owner, utilizing Agile methodologies to deliver key features on time and iterating based on feedback.
- Integrating CI/CD pipelines using Git and GitHub Actions to automate testing and deployment.

#### **Project 2**

##### **Team Collaboration Project**

##### **instaCanva - WhatsApp Bot**

**Description:** instaCanva is an innovative WhatsApp bot that enables users to manage their Canva designs directly from WhatsApp. By combining the ease of messaging with the design power of Canva, instaCanva allows users to create, upload, and export Canva designs without leaving WhatsApp, making the design process more accessible and efficient.

**Technologies:** Python, Flask, Twilio, SendGrid, Canva Connect API, Google Gemini AI.

### **Key Contributions:**

- **Backend Logic Development:** Developed the backend logic using Python, creating seamless communication between WhatsApp and Canva through APIs, allowing users to authenticate, manage, and export their Canva designs.
- **WhatsApp Integration:** Integrated Twilio to enable communication between WhatsApp and the bot, handling user design requests and commands through an intuitive chat interface.
- **Email Notifications:** Integrated SendGrid to provide email notifications for key events like design exports and account updates, ensuring users are always informed.
- **API Integration:** Utilized the Canva Connect API to manage user designs, from creation to export, offering real-time design synchronization and management.
- **Natural Language Processing (NLP):** Leveraged Google Gemini AI for natural language processing to interpret user commands, enabling a conversational interface that simplifies design management tasks.
- **Flask Web Framework:** Built and deployed the backend using Flask to handle incoming requests and route messages between WhatsApp and Canva efficiently.
- **Collaboration & Testing:** Coordinated with team members during the integration of various APIs, ensuring seamless user experience through extensive testing and iteration.

<https://devpost.com/software/instacanva>

**Your AI-Powered Canva Productivity Tool-**instaCanva leveraging Watsonx ai-

<https://www.youtube.com/watch?v=xDqAa76WjjM&list=LL&index=1>

## **Project 3**

### **Team Collaboration Project**

#### **Music Application**

**Description:** A web-based music application designed to allow users to stream, create playlists, and discover music based on genres, artists, and personalized recommendations. The application supports both desktop and mobile browsers, providing a seamless and intuitive user experience.

**Technologies:** React, Django, Git, SQL

**Key Contributions:**

- Developed the music streaming platform using React for the frontend and Django for the backend, ensuring a responsive and user-friendly interface.
- Implemented RESTful APIs to manage user playlists, track streaming, and music discovery features, optimizing backend performance.
- Integrated an SQL database to store user data, including playlists, music preferences, and user authentication.
- Collaborated with a cross-functional team using Agile methodologies to deliver core features and handle feedback during development sprints.

**Project 4**

**Individual Development Project (**

**Digital Record-Keeping Management System (February 20224-May 2024)**

**Description:** The Digital Record-Keeping Management System is a web-based platform developed for DayCare. The system enables the appointed administrator to efficiently manage essential supplies like diapers, fruits, and milk, as well as the daycare's Dolls' stall. This centralized system enhances communication among staff and ensures that all resources are available, contributing to a more organized and efficient daycare environment.

**Technologies:** Python, Django, HTML, CSS, JavaScript, Git

**Key Contributions:**

- Collaborated with a team to design and implement the system using Python and Django frameworks.
- Managed databases and ensured version control with Git.
- Successfully delivered a fully functional web application, enhancing the daycare's operational efficiency.

**Education**

- Advanced Certificate in Python Development, Refactory Academy June 2024 - December 2024
- Certificate of Software Engineering, Refactory Academy January 2023 - May 2024
- Uganda Advanced Certificate of Education, Rock High School 2017 - 2018
- Uganda Certificate of Education, Tororo Town College 2013 - 2016

## Certifications & Trainings

- Software Engineering with Python Certificate (2024)
- Digital Skills(Tech@work-2023)

## Languages

- English
- Luganda

## References

- **Dorothy Oyella** | Placement Lead, Refactory Academy Uganda| [doyella@refactory.academy](mailto:doyella@refactory.academy) | +256772122523
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