

Umutoni Uwujinema Ange Ariane

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SUMMARY

I am an experienced and motivated software engineer with a strong focus on creating efficient, reliable, and scalable programs that drive organizational success. My expertise lies in developing user-friendly systems and overseeing their seamless implementation from conception to deployment. I have a deep understanding of the software development lifecycle, and I consistently apply best practices in coding, testing, and maintenance to deliver high-quality solutions. My leadership skills enable me to effectively manage projects and collaborate with cross-functional teams, while my strong communication abilities ensure clear and effective interaction with both technical and non-technical stakeholders. I am passionate about leveraging technology to solve complex problems and am committed to continuous learning and improvement in my field.

EDUCATION

Adventist University of Central Africa (AUCA)

Bachelor of Science, in Information Technology

Major, in Software Engineering

Rwanda, Kigali

Sept 2021 - Jan 2025

Groupe scolaire st Aloys Rwamagana

A2 Diploma in Physics, Chemistry and Mathematics

2017-2019

EXPERIENCE

Rwanda, Kigali

- *Web Application for Tutoring Management (C#): Developed and implemented a tutoring management system with C#.*
- *Patient Management Web Application (HTML/CSS/JavaScript/Bootstrap): Created a patient management system using front-end web technologies.*
- *Data Collection for Unemployed Individuals: Managed and organized data collection for unemployed people in Rwanda.*
- *Youth Volunteering During COVID-19: Supported COVID-19 relief efforts through community service and food distribution*

ACADEMIC PROJECTS

Project title: Smart Home Monitoring System

Description:

- The Smart Home Monitoring Project is an innovative mobile application developed using Flutter designed to leverage the sensors commonly found in modern smartphones to create an intelligent home monitoring system. This project demonstrates proficiency in mobile app development, sensor integration, and real-time data processing.

- Methodology: Sensor integration, Real-time data processing, Push notifications, Geofencing

Project title: Prisoner Management System

Description:

- Developed a Prisoner Management System to optimize inmate supervision and rehabilitation in correctional facilities by improving resource allocation, providing comprehensive incarceration trend reports, and addressing prisoner health issues through preventive measures and timely interventions.

Utilized Java and the Hibernate framework for backend development, ensuring robust and scalable functionality.

- Designed a responsive and user-friendly frontend using HTML/CSS, JavaScript, and Bootstrap.
- Managed database operations with PostgreSQL, facilitating efficient data storage and retrieval.
- Integrated an automatic verification process for visitor identification and clearance, ensuring authorized visitation and maintaining security protocols.
- Provided correctional officers with guidelines on preventing and managing common prison health issues, helping reduce disease incidence and promote inmate well-being.
- Enabled administrators to generate detailed weekly and monthly reports, offering insights into prisoner population trends, rehabilitation progress, and supporting informed decision-making.

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, JavaScript, C
- **Web Development:** HTML, CSS, React, Node.js, Bootstrap, THYMELEAF Engine
- **Database Management:** MySQL, MongoDB
- **Tools & Frameworks:** Docker, Git, Spring Boot, Django, Git Hub, Eclipse, Visual Studio, NetBeans, Visual Studio Code, Notepad++
- **Operating Systems:** Windows, Linux
- **Language:** English: Fluent, French: Intermediate, Kinyarwanda: Native

CERTIFICATIONS

- Linux Fundamental
- NDG Linux Essentials
- Networking Essentials
- IBM Data Engineering Data Science with Python Scholarship