UWONKUNDA MAHINGA RODIN

Software Engineer

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Aspiring software developer and embedded systems engineer with a focus on healthcare, cybersecurity, and algorithm development. Passionate about leveraging technology to create innovative solutions that enhance user experiences and promote accessibility. Actively pursuing opportunities to contribute to impactful projects and grow as a versatile developer.

SKILLS

- **Programming language**: Java, C++, Python, Javascript, SQL
- **Frameworks and Tools:** Spring Boot, Angular, Android Studio, IntelliJ IDEA, Lombok
- **Database Management**: PostgreSQL, MySQL
- **Embedded Systems:** Arduino(COM4 port configuration)
- **Operating System:** Ubuntu, Windows, Kali Linux
- **Cybersecurity Tools:** Nmap, Torify, Whois, SSH
- **AI and Data Analysis:** Machine Learning models using CSV datasets
- **Version Control:** Git ,Github
- **Other Tools:** IntelliJ, Ubuntu terminal, Kali Linux terminal

PROFESSIONAL EXPERIENCE

Intern |CodeAlpha, Remote Work| December 2025 – January 2025
Focused on Java programming, developed robust applications, and collaborated on team projects.

Cybersecurity Engineer |Remote Work | June 2024 – Present
- Gained 3 certificates from Cyberium as an Ethical Hacker.
- Implemented projects that helped in analyzing network research and info .gathering within pentesting.

Database Connectivity Project (November 2024 - Present)
Built a system to connect to the PostgreSQL database 'rca' using JDBC.

ePortfolio Management (March 2025 - Present)
Built a Spring Boot Rest API powering on tracking student studies and performance at school.

Special Servlet Program Development (January 2025 - Present)
Developed a servlet program showcasing advanced Java skills, hosted on GitHub, and shared on LinkedIn for professional exposure.

Smart Farming System (March 2025 - Present)
Built an IoT-based solution using sensors to monitor soil and automate irrigation for better crop yield.

C++ Programmer Algorithms Implementation (January 2025 - Present)
Created a repository to explore and implement algorithms.
Categorized algorithms and provided challenges as comments in code for better understanding.

Hotel Management System – Java Programmer (December 2024 - Present)
Created and implemented a hotel management system to manage all hotel services including services like reservations , bookings , orders etc…

EDUCATION

Software Programming and Embedded Systems| Rwanda Coding Academy| Nyabihu , Rwanda| 2023-Present

- **Relevant Courses**: Software development, embedded systems, problem solving, etc…

Sciences & Technology| Groupe Scolaire Officiel de Butare| Huye, Rwanda| 2020-2023

Relevant Courses: Geography, Chemistry, Biology, IT, Mathematics, etc…

Primary Level Education| Kigali Pacific College| Kigali, Rwanda| 2014-2020

- Relevant Courses: Mathematics, Sciences and Elementary Technology, Social Studies & General Education, etc…

CERTIFICATIONS

- Certified Python Fundamentals Programmer from Cyberium
- Certified Problem Solver from Hacker Rank
- Certified Software Engineer from Hacker Rank
- Certified Intern Java Programmer from CodeAlpha
- Certified Network Researcher from Cyberium
- Certified Intro To Cyber from Cyberium

PROJECTS

Tele-Health

- Developed a telehealth app to assist individuals with chronic diseases in tracking their health.

- Designed the app to be accessible on smartphones and regular phones for maximum usability.

Digital System for TVET School Management

- Worked on automating school management processes for TVET institutions.

ePortfolio Management APIs/Backend Development

- A Spring Boot Rest API powering on tracking student studies and performance at school.

Hotel Services Management System/Backend Development

- A hotel backend system that manages bookings, services, and users with secure authentication and role-based access.

Smart Farming System/IoT & Embedded

- An IoT-based solution using sensors to monitor soil and automate irrigation for better crop yield.

ACHIEVEMENTS

- Selected for an internship with **Code Alpha**, showcasing expertise in Java programming.
- Developed and shared advanced servlet projects on **GitHub** and **LinkedIn.**
- Built an AI-based health prediction model using UCI Machine Learning Repository data.

LANGUAGES

- **English:** Fluent
- **French:** Proficient
- **Kinyarwanda:** Native

REFERENCES

- **CP-Engineers:** Ihirwe Patrick | nipcts3@gmail.com
- **CP-Engineers:** Rwaburindi Jean Calvin | jeancalvin027@gmail.com
- **CP-**Engineers: Irumva Regis Dieu Merci, Nyiringabo David, Jean De Dieu Nshimyumukiza
- **RTB Staff:** Octave
- **Cyberium:** thinkcyber@cyberil.com
- **LinkedIn:** www.linkedin.com/in/mahinga-rodin-67924a2a2/
- **GitHub:** https://github.com/mahingaRodin?tab=overview&from=2025-01-01&to=2025-01-15