

ALINE NYIRANIZEYIMANA

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SUMMARY

I am a passionate technologist who enjoys transforming data into meaningful insights through analysis, prediction, and epidemiological modeling, while also designing and developing practical solutions, including web applications, mobile apps, and IoT systems.

EDUCATIONAL BACKGROUND

AIMS RWANDA – Kigali, Rwanda

September 2025 – September 2026

MSc in Mathematical Epidemiology

Relevant coursework: Introduction to Probability and Statistics, Introduction to Mathematical Modelling; Programming & Tools: R, Bash, Python, MATLAB

University of Rwanda – Kigali, Rwanda

April 2021 – June 2025

BSc (Hons) Computer Engineering

Relevant coursework: Object-Oriented Programming using Java, Embedded Computer Systems Engineering, Database Systems

Grade: 81.31/100

Ecole De Sciences Byimana – South, Rwanda

January 2017 – November 2019

Secondary School Certificate

Relevant coursework: Mathematics, Physics, Computer Science (MPC)

Grade: 73/73

PROFESSIONAL WORK EXPERIENCE

AI and Data Science Intern

March 2024 – October 2024

Kigali, Rwanda

- Analyzed how vaccines have an impact on diseases measles and yellow fever by using Routine Immunization, Yellow fever and Measles datasets of Africa regions at HUZALABS using Python and scikit-learn.

Software Developer Intern

August 2024 – September 2024

Kigali, Rwanda

- Developed a backend of a Project management System using Laravel PHP framework to help project managers to assign task to employees and manage deadlines at AQS.

PROJECTS

Accident Prevention System

October 2022 – November 2023

- Created an app using React Native a framework for JavaScript to prevent an accident when there is a potential hazard detected when there is a critical situations car would take automatic brakes.

Realtime Water Quality App

June 2024 – August 2024

- Developed a mobile app using React Native to provide real-time data on water quality parameters for home water tanks. Using Firebase for dynamic data storage and retrieval. Integrated hardware sensors including pH sensor, turbidity sensor, temperature sensor, and ESP32 microcontroller for live data acquisition.

LEADERSHIP AND AWARDS

University of Rwanda Principal roll of honor

2021 – 2022

Awarded for outstanding academic excellence during the academic year of 2021 – 2022.

Youth Volunteer Leader in MURINJA cell

July 2020 – December 2020

Served as a leader during the COVID-19 pandemic, actively enforcing health and safety guidelines to prevent the spread of the virus while ensuring adherence to preventive measures.

CERTIFICATIONS

AI and Data Science Training for Women in Rwanda,AI Program

March 2024 – October 2024

Successfully completed the AI Fellowship program, gaining practical experience in AI and data science applications for real-world projects.

The ICT Engineer Development Training Course

January 2024 – May 2024

Successful completion of five months training on Internet of Things and Artificial Intelligence, equipping participants with practical skills in advanced technologies and their application.

UNESCO UNITWIN AI, Powered Next Generation Entrepreneurship Training

July 2023 – July 2023

Successful completion of one week training on applying AI in real-world scenarios for innovative entrepreneurial solutions.

SKILLS AND INTERESTS

Skills Machine Learning (predictive models), Deep Learning (neural networks), Database (Firebase, MongoDB, MySQL), Frontend (React.js, JS), IoT (ESP32, Sensors), Backend (REST APIs)

Interests Health data driven decision making, Mathematical Modeling, Epidemiological Analysis, Predictive Analytics

LANGUAGES

Kinyarwanda Native

English Fluent

French Intermediate

DECLARATION

I hereby declare that all the details given above are true to the best of my knowledge and belief.