

MANZI SHIMWA YVES SERAPHIN

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Software Engineering student at Rwanda Coding Academy with practical experience building AI-powered applications, secure software, and full-stack web solutions. Passionate about solving real-world problems through technology, with experience in hackathons, cybersecurity competitions, and collaborative software projects. Interested in Artificial Intelligence, Cybersecurity, Backend Engineering, and Product Development

EDUCATION

SOFTWARE PROGRAMMING, CYBERSECURITY AND EMBEDDED SYSTEMS

Rwanda Coding Academy

2025 – PRESENT

Relevant coursework includes programming, databases, networking, embedded systems, web development, cybersecurity fundamentals, entrepreneurship, and applied sciences.

ORDINARY LEVEL

Hope Haven Christian Secondary School

2023 – 2025

Completed the Rwandan Lower Secondary curriculum, Gaining a solid foundation in mathematics, sciences, Languages, and information and communication technology (ICT) Developed analytical thinking, collaboration, and Problem-solving skills that laid the groundwork for pursuing Advanced studies in software engineering and technology.

ORDINARY LEVEL

Groupe Scolaire Officiel de Butare

2022 – 2023

Built a strong academic foundation through the Rwandan Lower Secondary curriculum, developing critical thinking, communication, mathematics, sciences, and digital literacy skills. Participated in school activities that strengthened teamwork, leadership, discipline, and problem-solving while preparing for advanced studies in technology.

EXPERIENCE

MACHINE LEARNING ENGINEER

Rwanda Coding Academy

FEBRUARY 2026

- Developed an IoT integrated platform for real-time monitoring of waste levels and environmental metrics.
 - Utilized machine learning to analyze historical data, optimize waste collection schedules, and reduce delays.
 - Enhanced user experience with a mobile friendly interface and real-time notifications, promoting sustainability.
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SKILLS

- JavaScript
 - TypeScript
 - Python
 - C
 - PHP
 - SQL
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- HTML
 - CSS
 - PostgreSQL
 - Supabase
 - Firebase
 - VS Code
 - AI
 - Cybersecurity
 - Flutter
 - Kotlin
 - React
 - Node.js
 - Express
 - Git
 - GitHub
 - Linux
 - REST APIs
 - Networking
 - Embedded Systems
 - Image Recognition
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PROJECTS

ECOLOOP

Rwanda Coding Academy

FEBRUARY 2026

Engineered an AI and IoT ecosystem for intelligent e-waste management, combining computer vision, safety Monitoring, and real-time valuation to support sustainable recycling and circular economy initiatives.

CLASSIQ

Rwanda Coding Academy

OCTOBER 2025

Built an AI-Powered education analytics platform that generates personalized learning plans, predicts student Performance, and enable data-driven decision making for teachers and school administrators.

NEXRA

Rwanda Coding Academy

NOVEMBER 2025

Engineered a scalable e-commerce platform featuring product management, secure authentication, order processing, And responsive user experiences for buyers and sellers.

CYBERSECURITY LABS

Rwanda Coding Academy

FEBRUARY 2026

Completed hands-on cybersecurity labs and Capture the Flag (CTF) challenges, applying skills in network security, digital forensics, web application security, Linux, vulnerability analysis, and incident investigation using industry-standard Tools and methodologies.

LYFE

Rwanda Coding Academy

JUNE 2026

Developed an AI-powered healthcare web application that integrates wearable health data and pantry inventory to Deliver personalized nutrition guidance, improve accessibility, and reduce food waste.

CODEFOLIO

Rwanda Coding Academy

FEBRUARY 2026

Built a full-stack platform for project portfolio management and verification, enabling developers to showcase authenticated

Project, manage submissions, and enhance professional credibility.

LEADERSHIP

- Member – CyberKnights: Led Cybersecurity Experiments.
 - Mentored junior students in coding and project development.
 - Vice President of the Environment Initiative.
ILead Alumni.
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CERTIFICATES & ACHIEVEMENTS

- Tech for Everyone -Yeva Hyusyan, 2025
- Journée Culturelle de la Francophonie, 2023
- TryHackMe Advent of Cyber 2025
- Gemini Academy-Google for Education 2025
- AI Ideathon 3rd Place
- Active Participant in PrimeCTF and won in Women in Cybersecurity