

Diane Ishimwe

Software engineer

Kigali,Rwanda

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<https://portfolio-git-main-dianes-projects-5bd594c1.vercel.app/>

Background

Computer & Software Engineer with strong technical skills in software development, embedded systems, and data tools. Passionate about using technology to solve real-world problems especially in underserved communities. Currently training a machine learning model to help Rwandan farmers detect crop and animal diseases. Aiming to advance my expertise in data analysis to design practical and transformative systems. Committed, self-driven, and team-oriented.

SKILLS

- Programming Languages: C++, Python, NumPy, Java, JavaScript, TypeScript, Dart (Flutter)
- Frontend: React, React Native, Flutter, Next
- Backend: Node.js, Express.js, PHP (Laravel), Spring boot
- Databases: MongoDB, PostgreSQL
- Data Tools: Google Sheets, Excel (advanced formulas), Data Cleaning, Power BI, Google Colab
- Embedded Systems & Industrial Automation
- Version Control: Git
- Tools & Technologies: REST APIs, Agile Development
- UI/UX Design Tools: Figma, Canva
- Soft Skills: Attention to detail, proactive communication, teamwork, problem-solving

EXPERIENCE

Imvunwa business group, Kimironko, Kigali - Web Developer & Marketing Assistant

June 2023 - May 2025

- Designed and developed a responsive website to promote Imvunwa's products, improving their digital presence.
- Managed social media accounts to engage with customers and drive product awareness.
- Created and implemented content strategies that increased online engagement and brand visibility.
- Collaborated with the marketing team to align website and social media campaigns with business goals.
- Utilized analytics tools to track website performance and social media growth, applying insights to optimize strategies.

kLab,Kigali – *Software Development Intern*

December 2024 – July 2025

- Participated in the Fullstack Web Development program, focusing on real-world project development.
- Contributed to building responsive and user-friendly web applications using modern technologies like React, React-native, Typescript, Node.js, and MongoDB,.
- Worked in a collaborative environment, attending mentorship sessions and applying agile methodologies.
- Gained hands-on experience in version control, debugging, and deploying applications.

EdTech, Kicukiro,Kigali - *Embedded system Trainer*

February 2025-April 2025

- Conducted training sessions on embedded systems for Advanced Level students as part of an educational internship program.
- Delivered hands-on lessons on microcontrollers, sensors, and hardware programming.
- Guided students in building basic IoT and automation projects, bridging theory with real-world applications.
- Promoted technical creativity and innovation through project-based learning and mentorship.

ICT Chamber,Kigali – *Embedded Systems Trainee*

September 2023 – December 2023

- Completed a 3-month intensive Embedded Systems training program focused on microcontrollers, sensors, and real-time systems.

- Gained hands-on experience with Arduino and ESP 32 for prototyping IoT solutions.
- Developed and tested embedded applications using C/C++ and basic circuit design.
- Worked on mini-projects integrating hardware components with software logic.

IEEE, Muhoza, Musanze- *Teacher Assistant*

November 2020 – June 2021

- Taught Physics and Mathematics – Provided instruction to Senior Two and Senior Five students in both subjects.
- Fostered Academic Growth – Helped students improve their performance and confidence in scientific subjects through supportive and effective teaching methods.
- Enhanced Concept Understanding – Focused on making core scientific concepts clear and relatable, enabling students to grasp and apply them in real-life and exam contexts.

EDUCATION

University of Rwanda, Kigali - Bachelor's in Computer and Software Engineering

June 2022-June 2025

Final year bachelor's student with a focus on software development, Networking, embedded systems, IoT applications and data analytics.

Ecole secondaire saint vincent Muhoza, Musanze - Advanced level diploma

January 2018-July 2021

Advanced Certificate in Mathematics, Physics, and Computer Science

LANGUAGES

Kinyarwanda(Native)

English

AWARDS

- Fullstack Course Certificate – kLab (2024–2025)
- Embedded Systems Course Certificate – ICT Chamber (2024–2025)
- SANGIZA Digital Innovation Certificate – Tuti mutabazi(2025)
- Women Professional Development Program – U.S. Embassy (2025)
- Hackathon Finalist(Digital ID Hackthon) – Digital Student eCard (2024)
- Bridge Program-Carnegie Mellon University(2024)
- Teaching Skills Certificate – IEE NGO (2019–2021)
- Appreciation Certificate – Saint Vincent Muhoza (2019–2020)
- Disability Awareness Training Certificate (2023)
- Generative AI Fundamentals – Microsoft (Dec 2024)
- Badges: Enabling Digital Transformation, Azure AI Foundry, Startup Fundamentals, UX & Design Thinking, Validate Your Startup Idea.

References

- **Ngenzi Alexandre: Head of department in Computer engineering, University of rwanda**

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- **Hirwa Aurore:CEO of EdTech, EdTech company**

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- **Paul Ssai MUGERWA: TAP Coordinator, IEE NGO**

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I, ISHIMWE Diane, do declare that the above information is true to the best of my knowledge.