Marie Vincent Patience Izere

Data engineer and full-stack developer

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PROFILE

Data engineer with over three years of experience in data analysis, software engineering and stakeholder engagement in Rwanda. I build data pipelines, scoring models and dashboards, and full-stack platforms with Django, React and PostgreSQL, from multi-tenant farm and feed-sector systems to this site.

A civil and environmental engineering background (environmental impact assessment, water resources, climate risk) means I understand the sectors the data comes from. I deliver training as readily as code, and work in English, French and Kinyarwanda.

EXPERIENCE

Data Engineer — Rwanda ICT Chamber, Kigali, Rwanda

Jul 2024 – Present

- Developed scoring models to evaluate project performance and optimise resource allocation, enhancing data-driven decision-making.
- Designed interactive data visualisations that simplify complex patterns for stakeholders, supporting strategic initiatives.
- Built and maintained data pipelines integrating diverse sources.
- Implemented database systems that uphold data integrity, security and accessibility for end users.
- Collaborated with government and private-sector stakeholders to advance Rwanda's digital ecosystem.
- Delivered technical training on data tools and best practices to diverse teams.

Environmental Specialist — World Bank, Rubavu District, Rwanda

Jan 2023 – Jun 2023

- Conducted Environmental Impact Assessments (EIA) and ensured compliance with national regulations.
- Partnered with local government stakeholders to implement and monitor environmental mitigation plans.
- Designed and delivered training on environmental management practices to staff and communities.
- Managed waste and water resources, embedding sustainability into project operations.

Promoter — Carlcare, Kigali, Rwanda

May 2020 – Mar 2022

- Led sales teams to meet quotas, providing training on techniques and product knowledge.
- Engaged stakeholders through presentations and fieldwork coordination.
- Managed personnel and kept operations running efficiently.

Python Developer Intern — Shaka AI, Kigali, Rwanda

Dec 2019 – May 2020

- Developed server-side code in Python for scalable web applications.
- Improved user experience through interface design and third-party integrations.
- Supported data-driven development with technical programming solutions.

Sales Agent — Airtel Rwanda, Kigali, Rwanda

Dec 2018 – Nov 2019

- Built client relationships and tailored solutions based on data-driven insights.
- Managed orders and communicated effectively with diverse customers.

SELECTED WORK

izere.work

Own product

Design and development · 2026

This site: a consultancy platform with a public site, client portal, engineering console, invoicing with Stripe, HR and payroll, and this portfolio.

Django, Django REST Framework, React, TypeScript, PostgreSQL, Docker, Caddy, Stripe

EDUCATION

MSc Information Technology
Sep 2025 – expected Nov 2027

University of Kigali, Kigali, Rwanda

BSc (Hons) Civil Engineering, Environmental Engineering option
Nov 2019 – Jun 2024

University of Rwanda, College of Science and Technology, Kigali, Rwanda
Degree conferred 25 October 2024.

Rwanda Advanced Certificate of Education (Physics, Chemistry, Biology)
Dec 2018

PSVF Karubanda, Rwanda

SKILLS

Data engineering: Python, SQL, PostgreSQL, Data pipelines (ETL/ELT), Database design, Data analysis, Power BI and data visualisation, Scoring and predictive models
Environment and climate: GIS, CAD, Environmental impact assessment, Water resources management, Climate and disaster risk
Software development: Django and Django REST Framework, React and TypeScript, Next.js, Laravel, Multi-tenant SaaS design, Docker and Linux deployment
Ways of working: Scrum, Stakeholder engagement with government, Technical training and capacity building, Project management

Languages: English (Fluent (CEFR B2 certified)), French (Fluent), Kinyarwanda (Proficient)

CERTIFICATIONS

Professional Scrum Master I (PSM I) — Scrum.org, 2025 verify
Data Analysis Fundamentals Nanodegree — Udacity, 2025 verify
Data Analysis — Rwanda ICT Chamber, with Refactory, iHUZO and Talent4Startups, 2025
Embedded Systems — Hanga Hub, 2024
AI for Data Science — Hanga Hub, 2024
SQL — Sololearn, 2021
Intermediate Python — Sololearn, 2021
Nature-based Solutions for Disaster and Climate Resilience — UNEP and PEDRR, via SDG Academy (edX), 2024
Introduction to Integrated Water Resources Management in Rwanda (score 95%) — 2024 verify
General English, EF Level 11 (CEFR B2, Upper Intermediate) — EF Education First, 2024