

Didier IMANIRAHARI

Software Engineer (Python) – Backend, APIs & Automation

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👤 Profile Summary

Python-focused Software Engineer (B.Sc., University of Rwanda, Oct 2025) with hands-on experience building backend services, integrating REST APIs, and automating workflows. Comfortable with data processing (NumPy, Pandas), basic ML/NLP (scikit-learn, text preprocessing), and containerization (Docker). Familiar with event-driven design, webhooks, and LLM-assisted evaluation for text. Strong Git/GitHub practices, documentation, and collaborative delivery.

📁 Experience

2021 – Present

Independent Developer

GitHub Portfolio

- Built 10+ Python projects including REST APIs, automation tools, and small data pipelines.
- Integrated external APIs (requests, OAuth/keys), handled JSON schemas, and implemented robust error handling.
- Containerized and deployed services using Docker; wrote tests with pytest and set up CI basics on GitHub.

Contributor

NLPAY Academy (Google Developers Group Hackathon, Kigali)

- Helped prototype an AI-powered learning platform in Kinyarwanda; supported backend structure and iteration.
- Practiced version control, code reviews, and collaborative problem-solving under tight deadlines.

Project Contributor

University of Rwanda

- Explored distributed-ledger fundamentals; designed REST endpoints and data models for traceability.
- Gained exposure to fault tolerance, integrity, and secure transaction concepts.

🎓 Education

10/2025

University of Rwanda

B.Sc. in Computer & Software Engineering

- Full government scholarship for academic excellence.
- Relevant coursework: Data Structures & Algorithms, Databases, Distributed Systems, AI/ML Fundamentals.

Skills

Python & Backends – FastAPI, Django REST, requests, pydantic, SQL basics

Data & ML/NLP – NumPy, Pandas, scikit-learn (basics), text preprocessing, embeddings/transformers (familiar)

APIs & Workflows – REST, webhooks, OAuth/headers, JSON, pagination, retries, idempotency

DevOps & Tools – Git/GitHub, pytest, Docker, GitHub Actions (basics), Linux/Unix shell

Cloud & Systems – Kubernetes fundamentals (LFS250), networking concepts (TCP/IP, DNS, OSI – CCNA)

Documentation & Comm – Markdown READMEs, diagrams, clear commit messages, concise demos

Certifications

Kubernetes & Cloud Native Essentials (LFS250) – The Linux Foundation (2025)

CCNAv7: Enterprise Networking, Security & Automation – Cisco (202)

CCNAv7: Introduction to Networks – Cisco (2022)

IT Essentials – Cisco (2021)

Selected Projects

Application Shortlisting Automation (Personal Prototype)

Event-driven FastAPI service that ingests resumes/roles, extracts text, computes skill match scores (keyword + simple ML), and uses an LLM to summarize fit for human review.

AI Career Platform

Automated CV builder + recommendation features; Python backend, basic NLP for skill extraction.

NLPAY Academy

Contributor to AI learning platform prototype; collaborated on APIs and data handling.

E-Commerce Backend (Team Avatar)

Product, cart, and order APIs with authentication and validation.

