Duhirimana Odile

📍 Rwanda · 📱 +250 798 980 237 · ✉️ odileduhirimana@gmail.com
💻 github.com/OdileDuhirimana · 🕐 [X: @duhirimanaOdile](https://x.com/duhirimanaOdile)

Professional Summary

Ambitious Software Engineer specializing in **secure backend systems, AI, and full-stack development**. Experienced in mobile development, data analytics, and building enterprise-grade solutions. Skilled in designing scalable architectures, intelligent systems, and secure applications. Driven by innovation, problem-solving, and delivering impactful engineering solutions.

Technical Skills

Programming & Frameworks: Java (Spring Boot), Python (Django, FastAPI), JavaScript (Node.js, React.js), C++
Backend: REST APIs, Microservices, Authentication & Authorization
Databases: PostgreSQL, MySQL, MongoDB
Mobile Development: Flutter, React Native
AI & ML: NLP, Anomaly Detection, Model Evaluation
Cybersecurity: Secure Coding, Pen Testing Basics, Network Security
DevOps & Tools: Git/GitHub, CI/CD pipelines, Agile/Scrum
UI/UX & Design: Figma, Interactive Prototyping
Testing: Unit & Integration Testing (JUnit, Jest)

Professional Experience

Mobile Developer & Data Analytics Intern — *eFiche Company | Current*
- Developed and optimized mobile features, improving app performance and user experience
- Analyzed user and system data to support strategic and operational decisions
- Contributed to sprint planning and Agile workflows
- Strengthened collaboration skills in a professional engineering environment

---

Personal Projects

Machine Learning & AI

Personal Project	Description	Tech Stack
SentimentScope — NLP Analyzer	Emotion & sentiment detection including Kinyarwanda	Python, Transformers
FraudGuard ML — Anomaly Detection	Financial transaction anomaly detection using ensemble ML	Python, Scikit-learn
PredictWise — Student Success Predictor	Academic outcome forecasting with explainability tools	Python, ML libraries

Backend Engineering

Personal Project	Description	Tech Stack
Nova — Digital Banking Core System	Secure accounts, transactions, fraud alerts	Spring Boot, PostgreSQL
EduSync — LMS Backend	Microservices for course management & analytics	Spring Boot, MongoDB
CareFlow — Health Intelligence API	AI-powered risk insights & medical record security	Django REST, PostgreSQL
Gatherly — Event Management API	Ticketing, payments, event analytics	Node.js, MySQL
Trackella — Finance Tracker API	Budget insights, JWT authentication, notifications	Node.js, MongoDB

Full-Stack & Mobile Development

Personal Project	Description	Tech Stack
SafeShop — Secure E-Commerce Platform	Secure checkout, inventory control, fraud monitoring	React + Backend TBD
CampusConnect — Student Social Hub	Real-time chat, media uploads, event posts	React, Django
FitSync — Fitness App	Workout logging, streaks, offline support	Flutter
CareConnect — Health App	Appointments, reminders, calendar sync	React Native
SkillBridge — Job Finder	Live job streams, user profiles, bookmarks	React

Education

Rwanda Coding Academy — Software Programming & Embedded Systems | *2022 – 2025*
Lycée Notre Dame de Citéaux — O'Level | *2019 – 2021*

Certifications

- Certificate of Completion — Global Innovation Race: Introduction to AI Model & ChatGPT Workshop, IT Technology Training (2024)
- Certificate of Participation — Global Innovation Race (2024)
- Certificate of Attendance — HackTheCode Challenge (Reply)
- Certificate of Completion — 24 Cybersecurity Challenges, Advent of Cyber (2024)
- Certificate of Participation — Ideation & Prototyping Workshop at RCA
- Certificate of Completion — iChoose, iDo & iLead Leadership Value Program (iLead)

Interests & Personal Growth

- Strength Training & Gym Discipline
- Financial Independence & Investing
- Creative Writing & Narrative Journaling
- Human Psychology & Emotional Intelligence
- Building Tech with Social Impact
- Challenging Personal Growth Experiences

Languages

- English — Fluent
- French — Intermediate
- Kinyarwanda — Native