Duhirimana Odile

SECURE BACKEND & AI ENGINEER

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PROFESSIONAL SUMMARY

Software Engineer specializing in secure backend systems, AI, and full-stack development. Experienced in mobile development, data analytics, and building enterprise-grade solutions. Focused on scalable architectures, intelligent systems, and secure applications with measurable impact.

TECHNICAL SKILLS

- Programming & Frameworks: Java (Spring Boot), Python (Django, FastAPI), JavaScript/TypeScript (Node.js, React, Next.js), C++
- Backend: REST APIs, Microservices, Authentication & Authorization, Laravel
- Databases: PostgreSQL, MySQL, MongoDB
- Mobile Development: Flutter, React Native
- AI & ML: NLP, Anomaly Detection, Model Evaluation
- Cybersecurity: Secure Coding, Pen Testing Basics, Network Security
- Testing: Unit & Integration Testing (JUnit, Jest)

PROFESSIONAL EXPERIENCE

Software Engineering Intern — eFiche

FEB 2026 – PRESENT

- Contributed to the development and improvement of the eFiche Mobile App and Team Performance Dashboard
- Supported other ongoing projects within the team, collaborating across functions to implement features and troubleshoot issues
- Managed environment configurations and deployment tasks, ensuring updates and fixes were reflected in production
- Participated in requirement discussions, translating feedback into technical solutions and improvements

PROFESSIONAL PROJECTS

eFiche Mobile App — Mobile Developer

FLUTTER, DART

Contributed largely to the pregnancy tracker module with a focus on performance, reliability, and UX.

eFiche Web Platform — Web Contributor

NEXT.JS, LARAVEL

Contributed to features across both frontend and backend, integrating workflows with backend services.

Team Performance Dashboard — Backend Contributor

NEXT.JS, PYTHON, FASTAPI

Built frontend and backend features to track and visualize team performance.

PERSONAL PROJECTS

MACHINE LEARNING & AI

- SentimentScope — NLP Analyzer (Python, Transformers)
- FraudGuard ML — Anomaly Detection (Python, scikit-learn)
- PredictWise — Student Success Predictor (Python, ML libraries)

BACKEND ENGINEERING

- Nova — Digital Banking Core System (Spring Boot, PostgreSQL)
- EduSync — LMS Backend (Spring Boot, MongoDB)
- CareFlow — Health Intelligence API (Django REST, PostgreSQL)
- Gatherly — Event Management API (Node.js, MySQL)
- Trackella — Finance Tracker API (Node.js, MongoDB)

FULL-STACK & MOBILE DEVELOPMENT

- SafeShop — Secure E-Commerce Platform (React + Backend)
- CampusConnect — Student Social Hub (React, Django)
- FitSync — Fitness App (Flutter)
- CareConnect — Health App (React Native)
- SkillBridge — Job Finder (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