RAKOTONJANAHARY COLOMBE

FULL STACK & AI DEVELOPER

Anjanahary, Antananarivo, Madagascar

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PROFILE

Full Stack & AI Developer, curious and self-driven. I deliver web applications from the database to deployment: AI agents, RAG, models trained from scratch.

SKILLS

FRONTEND	TypeScript - React.js - Next.js - React Native - Tailwind CSS
BACKEND	Java - Spring Boot - FastAPI - REST API - PostgreSQL
AI & DATA	Python - LangChain - LlamaIndex - RAG - LLM APIs - Claude Code
TOOLS	JUnit - GitHub Actions - Docker - Git

PROJECTS

CHECKY — Fact-checking for newsrooms

TEAM OF 4 · OCT – NOV 2026

- Built the web desk and API: AI verification agents, sealed verdicts
- Shipped the Android app and the verification browser extension

Next.js · FastAPI · PostgreSQL · pgvector · Socket.IO · Expo

↗ github.com/0nlyDevs/checky-platform

KOKORO — Chat and watch-together rooms

SOLO · SEPT 2025 – OCT 2026

- Built the real-time app: rooms, messaging and synced YouTube playback
- **500+ accounts created**, a handful active every day

Next.js · Socket.IO · Prisma · Supabase · Zustand

↗ github.com/colombefioren/KOKORO

RAINCAST — Rain forecasting over Madagascar

SOLO · OCT 2026

- Trained from scratch an ensemble of **58 U-Net++ networks** to forecast rain 3 h ahead
- Reached an FSS score of **0.78** from satellite maps

PyTorch · U-Net++ · scikit-learn · OpenCV · NumPy · pandas

↗ github.com/colombefioren/RAINCAST

EVALIO — AI jury for hackathons

TEAM OF 6 · APR – SEPT 2026

- Built the FastAPI scoring and ranking API (code, market, product judges)
- Added repository ingestion and the Next.js jury interface

LangChain · ChromaDB · FastAPI · Next.js

↗ github.com/colombefioren/EVALIO--BACKEND

HIBENTO — Event platform

TEAM OF 4 · APR – JUN 2026

- Built the Next.js front end: events, sessions, speakers and search
- Added audience questions with live voting

Next.js · Spring Boot · Flyway

↗ github.com/0nlyDevs/hibento

COKEY — Free LLM gateway

SOLO · SEPT 2026

- Built an OpenAI-compatible gateway over **400+ free LLMs**
- Published on npm (**580 downloads**) and Docker Hub (**2,900+ pulls**)

TypeScript · Fastify · SQLite · Docker

↗ github.com/colombefioren/COKEY

EDUCATION

BSC COMPUTER SCIENCE (L3)
HEI Ivandry, Software Ecosystem
2024 - Present

COMPUTER SCIENCE, YEAR 1
ISPM Antsobolo
2023 - 2024

BACCALAUREATE, SERIES C
ESCA Antanimena
Honours · 2023

BACCALAUREATE A2 · 2022

AWARDS 2026

CyberFest Madagascar CTF
1ST PLACE · Cybersecurity · in pair

IndabaX Madagascar Hackathon
2ND PLACE · Machine learning · solo

24H by WebCup Madagascar
2ND PLACE · Team of 4

FANILO Hackathon
3RD PLACE · Team of 4

CERTIFICATIONS

Supervised Machine Learning
DEEPLEARNING.AI

Advanced Learning Algorithms
DEEPLEARNING.AI

Build RAG Applications
IBM

Generative AI Applications
IBM

Spring Data Repositories
LEARNQUEST

Versioned Docker Images
COURSERA

Git: Conflicts & Bug Tracing
COURSERA

Git: Branching Strategies
COURSERA

LANGUAGES

Malagasy - Native
French - Fluent
English - Professional

HOBBIES

Programming challenges
Reading, sport, drawing