



# TSIRESY MILÀ RANDRIARIMANANA

## SOFTWARE ENGINEER

### PERSON SUMMARY

Software engineer with over 8 years of experience, specialized in designing high-performance and scalable systems, building modern applications that combine fluid user interfaces, robust architecture, and reliable backends.

Creator of Nestipy, a NestJS-inspired Python backend framework, I also develop solutions integrating artificial intelligence and automation to optimize and simplify business processes.

### BRIEF EXPERIENCE

**Celenao** 2025 - Present

FullStack Developer

- Developed and maintained client projects, focusing on the integration of AI generators and mobile applications
- Implemented AI agents and multi-agent systems with RAG for content generation
- Upgraded and optimized the mobile application by adding new features, including an AI-powered live audio chat

**Ezway Technology** October 2021 - May 2025

Lead Backend Developer

- Designed and developed scalable microservices
- Architected new features and internal products
- Built APIs consumed by mobile and frontend applications
- Optimized system performance (latency, throughput)
- Improved system security and reliability
- Implemented CI/CD pipelines and Docker deployments
- Partnered with product teams and automation initiatives

**Ezway Technology** October 2020 - October 2021

Python Developer

- Developed and maintained a Python application using Pyramid and FastAPI
- Managed data flows between internal and external systems (GOV API), improving exchange reliability and reducing synchronization errors
- Containerized services with Docker
- Optimized server and processing performance

**Independant** May 2018 - October 2020

Full Stack Developer

- Delivered more than 5 web and mobile projects
- Designed complete frontend and backend architectures
- Integrated third-party services (payments, external APIs)

### CONTACTS

+ +261342083574

@ tsiresymila@gmail.com

🌐 <https://nestipy.vercel.app>

in <https://linkedin.com/in/tsiresy-mila>

📍 Antananarivo, Madagascar

### SKILLS

#### Languages

Python, TypeScript, JavaScript, PHP, Dart, Rust

#### Frontend & Mobile

React, Next.js, Flutter, React Native

#### Backend & API

FastAPI, NestJS, Laravel, Hono, ASGI, API REST / GraphQL / WebSocket, NodeJS / Python / PHP / Rust

#### Databases

PostgreSQL, MySQL, Supabase

#### DevOps & Cloud

Docker, CI/CD, Traefik, Nginx, Monitoring and performance optimization

#### Architecture & AI

Microservices, Clean Architecture, Dependency Injection, LLM, autonomous agents, automation, vector search (Zvec, Qdrant), Crewai, pydanticAi, Langchain

### LANGUAGES

ENGLISH **Advanced**

FRENCH **Professional**

MALAGASY **Native**

## 📖 EDUCATION

### ESPA Vontovorona

*Master's Degree — Network and Systems Engineering*

ESPA Vontovorona, Madagascar  
05/2021

## 📖 REFERENCES

- Github
- Gitlab
- Portfolio

## 📖 INTERESTS

- Travel
- Video Games
- Music

## 📄 RECENT PROJECTS

### Nestipy — Backend Python Framework

01/2024

- Created a NestJS-inspired Python backend framework used to build modular, production-ready, and scalable systems
- Built on FastAPI and compatible with other Python ASGI servers (BlackSheep, Sanic, etc.)
- Implemented modular architecture with dependency injection, making unit testing and feature evolution easier
- Supports 3 communication modes: REST API, WebSocket, and GraphQL for transactional and real-time use cases
- Designed for maintainability and performance

### AI Content Generator - Python and Mobile App

01/2025

- Automated email analysis and actionable task generation, reducing manual triage time and accelerating operations
- Integrated AI agents and workflow automation
- Developed a training content generation and management system powered by LLM agents (Crewai, PydanticAI, Langchain)

### G-SPEND — Mobile App

01/2025

- Developed a Flutter financial management application with improved user experience and real-time expense tracking
- Implemented real-time synchronization via Supabase
- Built an intuitive and high-performance interface

### Invoice Pro — Mobile App/Backoffice

01/2026

- Built a Flutter/Next.js application for enterprise invoicing management
- Implemented license and authorized-device management, strengthening access control and limiting non-compliant usage
- Integrated printing workflows with thermal printers

### Vaultix Secure — Secrets Management

02/2026

- Vaultix provides end-to-end encrypted secret management for infrastructure.
- Secure sharing of environment variables, API keys, and certificates with teams.
- Password and secret management through a web interface

### Nomi - Mobile App

2026

- Local model inference application (Gemma 4, Qwen 3, Phi 4, DeepSeek R1)
- Supports chat with text, image, and audio
- Agent extension tools such as web search and custom tools executed with a JavaScript engine