

# Ragnang-Newende Yanis Axel DABO

Junior Software Developer | Backend Systems | GenAI & AgenticAI Explorer

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GitHub | LinkedIn

## Education

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**Burkina Institute of Technology** | Computer Science Bachelor

*Koudougou, Burkina Faso*

*October 2023 - December 2026*

**Groupe Scolaire Saint Viateur** | Mathematics and Natural Science Baccalaureate

*Ouagadougou, Burkina Faso*

*October 2019 - June 2022*

## Professional Experience

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**BiT Solutions** | Software Engineer Intern

*Bavaria, Munich*

*May 2025 - June 2025*

- Support engineers in tailored software solutions development for German companies from supply chain to device manufacturing
- Solved software challenges by integrating AI technologies into existing workflows, improving efficiency and automation
- Developed and tested automation scripts using Python, and implemented backend services with Flask, Node and Express
- Gained experience with Supabase for backend data management and real-time updates
- Collaborated on AI-driven tooling using Maestro to enhance testing pipelines
- Gained hands-on experience in Large Language Models integration, proving ability to quickly adapt and contribute in emerging tech environments
- Contributed to improving development workflows and software reliability through automation and innovative problem-solving
- Gained hands-on exposure to CI/CD workflows and GitHub Actions, observing how automated pipelines improved software quality and deployment

**Freelance** | Software Developer

*Ouagadougou, Burkina Faso*

*2023 - 2025*

- Building custom web platforms for NGOs, media companies, small and medium enterprises with a backend-first approach, focusing on building fast, secure, and maintainable solutions tailored to real-world needs
- Rebuilding givemealift NGO in progress, transforming an outdated WordPress site into a modern, scalable web platform with content management system
- Developed and deployed a media coverage portal with secure role-based admin access to management dashboard
- Led full-cycle development on multiple projects: requirements gathering, UI integration, backend implementation, and deployment
- Building and maintaining AI-powered side projects, exploring intelligent CLI tools and developer-focused apps to automate workflows and enhance productivity
- Exploring the MERN stack (MongoDB, Express, React, Node.js) and JavaScript frameworks like Next.js through side projects, deepening understanding of REST APIs, component-based UIs, and full-stack architecture

- Known for honesty, clear client communication, thoughtful architecture, and reliable delivery

## Technical Skills

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**Programming Languages:** C, Python, JavaScript, TypeScript, Java, Bash

**Libraries/Frameworks:** React, Node, Express, Next.js, Flask, Laravel, Flutter, Google Gen AI SDK, FastAPI

**Tools/Platforms:** Git, GitHub, VSCode, Android Studio, Google AI Studio, OpenAI, OpenRouter, Hugging Face, Postman, Swagger, Docker, AWS, OVHCloud, Ollama

**Databases:** SQL, SQLite, MongoDB, Supabase, PostgreSQL

## Projects & Source Code

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- **TengLaafi** | [Source Code](#) | *Python, FastAPI, LangChain, ChromaDB, Mistral-7B, HuggingFace*  
Open-source medical conversational assistant using RAG pipeline, specialized in tropical diseases and African medicinal plants. Utilizes a validated corpus of 1500+ documents (WHO, PubMed, medical guides) with vector search and LLM to provide reliable medical information in French
- **EcoTrack** | [Source Code](#) | *Python, Flask, HTML, Bootstrap, JavaScript, Chart.js*  
Web-based waste management system designed to track and manage waste collections efficiently
- **Tracket** | [Source Code](#) | [Live](#) | *TypeScript, Next.js, React, Supabase, Gemini 2.0 Flash*  
Fully open-source personal finance management application designed to help users track their finances the smart way by logging spending, gains, setting budgets, and achieving financial goals with optional AI-powered insights
- **Job-portal-api** | [Source Code](#) | *JavaScript, Node, Express, MongoDB*  
JavaScript-based full-stack web application to dive into the MERN stack. Backend API completed, frontend planned
- **Vitali** | [Source Code](#) | *Jupyter Notebook, HTML, JavaScript, Python, CSS, Dockerfile*  
AI medical chatbot powered by a knowledge base implemented with a RAG pipeline
- **Y7-Jprompter** | [Source Code](#) | [Live](#) | *TypeScript, Next.js, React, Gemini 2.0 Flash*  
Web application leveraging Google's Gemini AI to convert natural language prompts into structured JSON formats
- **roomy - backend** | [Source Code](#) | *JavaScript, Node, Express, MongoDB, Dart, Flutter*  
Intelligent roommate task management mobile platform that transforms household coordination - Finalizing State
- **StockFlow** | [Source Code](#) | *C, Makefile*  
Open-source cross-platform inventory management system designed for small to medium businesses, with intuitive GTK3 interface
- **Y7-local-commenter-ext** | [Source Code](#) | *TypeScript, JavaScript*  
VS Code extension that generates intelligent, context-aware code comments using completely local AI. No data leaves your machine, no API keys required, no internet connection needed

## Certifications

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- Python Fundamentals - Great Learning
- JavaScript Fundamentals to Advanced - Udemy
- Introduction to Software Engineering - IBM x Coursera
- JavaScript Full-Stack Developer (In progress) - IBM x Coursera
- JavaScript Algorithms and Data Structures (In progress) - FreeCodeCamp.org