

Didier KOMACLO, Full-Stack Engineer × AI-Powered Products

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PROFILE:

Junior Full-Stack Engineer specializing in integrating generative AI systems into reliable, production-grade web infrastructure. Grounded in core software engineering – clean TypeScript/PHP, strict relational database schemas, and predictable delivery workflows. Completed 5 DeepLearning.AI specializations covering RAG pipelines, LLM-powered agents, and prompt engineering. Built and shipped AI-augmented products (RAG, LLM pipelines, real-time apps) across internship and personal projects. Adapted to asynchronous, cross-continental team cultures through international remote internships (Nigeria, India). Seeking a first permanent full-time remote engineering role.

TECHNICAL SKILLS

Languages : TypeScript, JavaScript (ES6+), Python, PHP, HTML5, CSS3

Frameworks et Librairies : React 19, Next.js (App Router), Vue.js, Nuxt.js, Tailwind CSS, shadcn/ui

Backend: Node.js, Express, Nest.js, Laravel

AI / ML: RAG pipelines (vector + GraphRAG), LangChain.js, OpenAI API, pgvector, Vercel AI SDK, prompt engineering, function calling, LLM agents (ReAct)

Databases & ORM: PostgreSQL, MySQL, MongoDB, Supabase, Prisma ORM, Mongoose

Infrastructure & Tools: Git, GitHub, Vercel, AWS S3, Docker, WebRTC, Socket.io

Testing & Quality: Jest, input validation, error handling, ATS-optimized architecture

State & Data : Rest APIs

Practices : Component-driven development, SPA & SSR applications, Responsive & mobile-first design, Performance optimization

Soft Skills : Clear technical communication, Autonomous problem-solving, Team collaboration, Adaptability in fast-paced environments

EXPERIENCE

Fullstack Developer Intern – Zidio.in

05/2026 – Present

Remote · International team

- Building production-grade full-stack features within a cross-functional remote team.
- Delivering frontend and backend modules using React/Next.js, TypeScript,

Node.js, and MongoDB.

- Collaborating asynchronously with engineers across time zones, following professional code review and delivery standards.

Frontend Developer Intern - TrueMinds Innovation SARL 02/2026 - 04/2026

Remote · English-written international team (Nigeria)

- **Scored** 81/100 overall, with a 9/10 on the implementation of a complex multi-page application covering navigation flows and application architecture.
- **Built** mobile-first, responsive interfaces compatible across all device types and screen sizes.
- **Worked** in a fully English-speaking international team, following professional code review standards and delivery deadlines.

Stack : React/Next.js, TypeScript, Tailwind CSS.

Full-Stack Developer Intern - e-Business Afrique, TOGO 02/2024 - 07/2024

Lomé, Togo

- Contributed to the development of internal management and digitalization platforms using Vue.js / Nuxt.js on the frontend and Laravel on the backend.
- Built reusable and maintainable UI components, improving navigation flows and overall user experience.
- Developed responsive, cross-browser frontend features aligned with business requirements.
- Collaborated closely with backend developers and stakeholders to integrate APIs and translate functional needs into clean interfaces.
- Participated in bug fixing, feature delivery, and code reviews within a production environment.

PROJECTS

docMind – RAG Web Application

2025 [Launch demo](#)

- Engineered a full RAG pipeline from scratch: document ingestion (PDF, DOCX), chunking, embedding via OpenAI, vector storage with pgvector on Supabase, and context-aware retrieval.
- Implemented a Multi-Routing query pipeline (semantic routing + keyword routing) to dispatch queries to the optimal retrieval strategy.
- Designed a linear GraphRAG architecture preserving document narrative continuity and structural sequence – eliminating hallucination risks from isolated chunk retrieval.
- Built verifiable source citations with similarity scores, giving users full

transparency over retrieved context.

- Managed token budget across retrieval and generation using js-tiktoken to control LLM costs.

Stack : Next.js (App Router), TypeScript, OpenAI API, pgvector, Supabase, Vercel AI SDK, LangChain.js, shadcn/ui, zod

Researchbot – LangChain Agent – Training Capstone

2025

- Built an AI-powered research agent using LangChain's ReAct pattern (Thought → Action → Observation loop).
- Autonomous web research agent built with LangGraph, LangChain.js, Groq (Llama 3.3 70B), and Tavily.
- Defined and integrated external tools (web search, document retrieval) callable by the LLM at runtime via function calling.
- Implemented structured output extraction and tagging from unstructured text sources.
- Applied advanced prompt engineering techniques to control agent reasoning and output reliability.
- Generates structured intelligence reports exported as PDF.

Stack : Next.js, TypeScript, LangGraph, Groq API, Tavily, Supabase, Vercel AI SDK, zod

IntellMeet – Full Stack App – Internship Project (Zidio.in)

2026 – [Live demo](#)

- Built a production-grade real-time meeting platform with AI-generated summaries, smart action items extraction, and team productivity analytics.
- Implemented real-time video/audio communication using WebRTC and Socket.io.
- Architected full-stack with React 19, Zustand state management, TanStack Query, JWT auth with httpOnly refresh cookies.

Stack : React 19, TypeScript, Vite, Tailwind CSS, Zustand, TanStack Query, Socket.io, WebRTC, Node.js, Express, MongoDB, Mongoose, JWT, bcrypt

Jurisk.io – Full-Stack LLM-Augmented SaaS

2025 – [Live demo](#)

AI-assisted contract analysis platform designed to extract risks, obligations, and power asymmetries from legal documents (PDF, DOCX).

- Designed and implemented a **LLM-augmented analysis pipeline**, combining structured prompts with deterministic rule-based post-processing.
- Integrated **LLM APIs (OpenRouter – Meta LLaMA 3.3 70B)** for clause classification, semantic extraction, and structured JSON outputs.
- Built a **modular full-stack architecture** using Next.js (App Router) with clear separation

between UI, server logic, and AI services.

- Implemented **secure authentication and user management** with NextAuth.js and Prisma ORM.
- Developed a **credit-based access system** (freemium model) to control usage, quotas, and cost exposure.
- Implemented document parsing (PDF/DOCX), validation, and persistence of analysis history.
- Focused on maintainability, scalability, and production-oriented constraints (quotas, data integrity, cost control).

Tech: Next.js, TypeScript, Tailwind CSS, OpenRouter, Prisma, NextAuth

AI/ML TRAINING (DEEPLARNING.AI)

- Building and Evaluating Advanced RAG (*DeepLearning.AI*)
- Functions, Tools and Agents with LangChain (*DeepLearning.AI*)
- Building Systems with the ChatGPT API (*DeepLearning.AI*)
- ChatGPT Prompt Engineering for Developers (*DeepLearning.AI*)
- Python for Data Science (*Kaggle*)

EDUCATION

ELC (English Language Center), TOGO

March 2025

English Language Training – B1 Level

Course Work : Professional English (B1) | Technical and Business Communication

ESGIS, TOGO

Oct 2021 - Aug 2024 Bachelor's in

software Architecture

Course Work : Software Engineering Fundamentals | Web Application Development | Data Structures & Algorithms | Object-Oriented Programming (OOP) | Database Systems (SQL) | Software Architecture

LANGUAGES

French (Native) · **English** (Professional – B1, international remote experience)