

KENJI MOBUTU

Product Engineer | Full-Stack Engineer | AI Tools

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PROFESSIONAL SUMMARY

Product Engineer and Full-Stack Engineer with experience building B2B software, AI tools, document intelligence systems, compliance workflows, and internal platforms. Strong hands-on background in TypeScript, Next.js, React, Node.js, FastAPI, Python, PostgreSQL, SQL, Docker, Supabase, REST APIs, authentication, RBAC, Stripe, webhooks, deployment workflows, and Playwright testing. Recent work includes self-hosted RAG systems, AI knowledge platforms, automated compliance products, and operator-managed SME software. Previous management experience strengthens business analysis, stakeholder communication, and product execution.

CORE SKILLS

Product Engineering, Full-Stack Development, Backend Development, AI Tools, Applied AI, Retrieval-Augmented Generation (RAG), LLM Workflows, Document Intelligence, Knowledge Systems, Internal Tools, TypeScript, JavaScript, Next.js, React, Node.js, FastAPI, Python, PostgreSQL, SQL, Supabase, REST APIs, Docker, Stripe, PayPal, Webhooks, Authentication, Role-Based Access Control (RBAC), Multi-Tenant Systems, Playwright, Jest, CI/CD, Vercel, .NET Framework, SQL Server.

SELECTED PROJECTS

OS-Kenomi | Product Engineer project | brain.kenomi.eu

Next.js 16, React 19, FastAPI, PostgreSQL

- Built an operator-installed internal operating system for SMEs with isolated deployments per client.
- Implemented sourced AI chat, internal wiki, SOP access, follow-up workflows, runtime health, backup, restore, and operator runbooks.
- Structured deployment and support workflows for real client operation rather than demo-only usage.

Sarnos | Full-Stack Engineer project |

React, FastAPI, PostgreSQL, Qdrant, Ollama, Celery, Redis, MinIO, Stripe

- Built a self-hosted RAG SaaS platform for document upload, retrieval, vector search, and contextual AI answers.
- Implemented multi-tenant architecture, async ingestion pipeline, embeddings, billing, and data-sovereign AI infrastructure.
- Combined product UI, backend APIs, vector search, local LLM orchestration, and operational infrastructure in one platform.

NIS2-Audit | Product Engineer project | audit.kenomi.eu

Supabase, FastAPI, TypeScript/Deno, Stripe, Resend, ReportLab

- Built an automated compliance workflow covering questionnaire intake, scoring, payment, PDF report generation, and email delivery.
- Translated cybersecurity and regulatory constraints into a concrete SME-ready product and service workflow.

Kenomi App | Full-Stack Engineer project | kenomi.eu

Next.js, TypeScript, Supabase, Stripe, PayPal, Clerk, Playwright

- Built and deployed a production web platform with payments, admin dashboard, role-based access, analytics, and end-to-end tests.

PROFESSIONAL EXPERIENCE

Software Engineer Intern — First Experience, Liege | Feb 2024 - Jun 2024

- Maintained and developed business applications in .NET Framework and SQL Server.
- Improved SQL query performance and supported business requirements analysis.

Full-Stack Developer (Student Job) — Fresheo, Brussels | Jun 2023 - Sep 2023

- Maintained production logistics tools on a Node.js stack and resolved critical issues in a live environment.
- Worked in a business-facing context with ticket-based delivery, bug fixing, and cross-team collaboration.

EDUCATION

Bachelor's in Computer Science & Information Management — EPFC, Brussels, 2024

Bachelor's in Marketing & Communication — ECS, 2013

LANGUAGES

French: Native | English: Fluent | Dutch: Basic