NATHAN RIHET

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Full-Stack Engineer specializing in GenAI/RAG systems with 3+ years building scalable applications.
Currently in Japan, open to opportunities requiring visa sponsorship.

TECHNICAL SKILLS

Languages & Frameworks: TypeScript, Python, React, FastAPI, Next.js, Angular, Node.js
Databases: MongoDB, PostgreSQL
DevOps & Tools: Git, Docker, CI/CD, Jenkins
Spoken Languages: French (Native), English (Professional), Japanese (Elementary)

WORK EXPERIENCE

CAPGEMINI (Global technology consulting company)   Valbonne, France
Software Engineer (1-Year Contract)   Apr 2024 – Mar 2025
- Built 2 GenAI applications using FastAPI, Langchain, and React, deployed via Docker/Terraform (Azure)
- Optimized Flask-to-FastAPI migration: reduced p95 latency from 500ms to 200ms through async operations
- Implemented hybrid search RAG system combining semantic (sentence-transformers) and keyword search
- Implemented secure document processing pipeline with role-based access control and audit logging

FREELANCE   Remote
Full Stack Developer   Mar 2025 – Present
- Delivered 2 MVPs, each with custom APIs, dashboards, auth, and CI/CD deployment
- Launched DocsRetriever, a production B2B SaaS serving 10 paying enterprise customers
- Currently developing second MVP (Suru [する]) for Japanese market with i18n support

CAWITA TECHNOLOGIES   Antibes, France
Full Stack Developer   Sep 2022 – Aug 2023
- Developed scalable web applications using MEAN stack (MongoDB, Express, Angular, Node.js)
- Implemented Jenkins CI/CD pipeline reducing deployment time from 2 hours to 15 minutes

EDUCATION

Université Côte d'Azur   Nice, France
Master of Computer Science in Applied Artificial Intelligence (MIAGE)
Sep 2022 – Sep 2024
Relevant Coursework: Algorithms, System Design, DevOps, Software Architecture

Université Laval   Quebec, Canada
Master's Exchange Program in Computer Science (AI Specialization)
Sep 2023 – Mar 2024

Université Côte d'Azur   Nice, France
Bachelor's Degree in Computer Methods Applied to Business Management
Sep 2021 – Sep 2022

TEACHING EXPERIENCE

Université Côte d'Azur   Nice, France
Academic Instructor (Part-time, 7 workshops) − Conversational Agents & LLMs (AI Course)   Dec 2024 – Jan 2025
Tech: FastAPI, Langchain, React   Link : github.com/NathanKneT/Master-AI-Chatbot-Course-2024
- Designed and delivered 7 practical workshops on conversational agents and LLM development for Master's students
- Trained 20+ students in building LLM-powered apps, prompt engineering, and FastAPI-based deployment

PROJECTS

DocsRetriever – French Enterprise Document AI May 2024 – Present
Tech: Langchain, FastAPI, Next.js, MongoDB Atlas Live: docsretriever.com/
- Implemented hybrid RAG pipeline: semantic search + BM25, achieving <2s query on 10K docs
- Architected async document processing handling PDF/DOCX/TXT with job queue system
- Deployed on VPS with custom Docker orchestration, 99.9% uptime since launch

RTHT-3D – Hand Tracking Interface April 2025
Tech: Python, Blender, Mediapipe Link: github.com/NathanKneT/RTHT-3D
- Built real-time gesture recognition system for 3D object manipulation using Python and MediaPipe
- Implemented dual-hand tracking at 30 FPS using MediaPipe's hand landmark detection
- Featured on SNS with 200k+ reach and video demonstration

NarrativeForge – Interactive Storytelling Platform with AI May 2025 – Present
Tech : Next.js, Tailwind, React Link: github.com/NathanKneT/NarrativeForge-nextjs
- Designed visual editor using React Flow with specialized node types (Start, Scene, End) and dynamic connections
- Architected system with strict TypeScript, lazy loading, and modular components
- Engineered multi-stage AI content pipeline with GPT-4 for auto-generating interactive stories

COMMUNITY & CREATIVE INITIATIVES

Freelance Photographer Canada, France, Japan
2019 – Present
Tech: Next.js Link: nathanglhf.com
- Built and maintained a high-performance photography portfolio with Next.js
- Applied visual storytelling and user testing to improve layout, accessibility, and engagement (40K+ views)

MIAGE Student Association – Université Côte d'Azur Nice, France
Sep 2022 – Jun 2023
- Launched university-wide DevTalk series reaching 150+ attendees per session
- Managed a 7-member team to organize AI-focused workshops, panels, and hackathons