ALDORITH CHOUNA NGUEFA

AI Engineer — RAG & Agentic Systems

Python · LLMs · hybrid RAG · LangGraph · MCP · LLM evaluation & safety

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French (native) · English C1 · German C1 · Available immediately · Permanent / freelance

PROFILE

AI engineer with a two-year apprenticeship at **Société Générale**, where I delivered a RAG application used by Internal Audit to draft model-risk notes. I build **traceable LLM applications**: hybrid retrieval, agents, citation checks, evaluation and prompt-injection defences, from business scoping to production.

PROFESSIONAL EXPERIENCE

Société Générale — Data & AI Scientist (apprenticeship), Audit & Inspection Générale Oct 2024 – Aug 2026

Automate the drafting of model-risk audit notes from large document sets.

- Designed and built an end-to-end **generative AI application**: ingestion of PDF, Word and Excel reports, document extraction and preparation, **Python/FastAPI** backend and web interface.
- Hybrid **BM25 + FAISS** retrieval fused with **RRF**, section-level **GPT** generation, consolidation and **source attribution** for every passage, with human review kept in the loop.
- **HDBSCAN clustering** module (outlier handling) and business summaries with figure-level comparison across documents.
- **Outcome:** structured, sourced first draft in **minutes** for a process that took 2–3 months manually; iterated with managers; took part in strategic meetings with Data Science department leadership.

Le Comptoir d'Afrique (Afro Shop) — Freelance Full-Stack & AI Developer Sep 2026 – present

Digitising a grocery store: online shop, orders, pickup, delivery and store management.

- Gathered requirements with the owner and wrote the design file: user journeys, **SQL data model**, **OpenAPI contract**, target NestJS/PostgreSQL architecture and **RAG** assistant.
- Built the **Next.js 16 / React 19 / TypeScript** frontend (catalogue, cart, checkout, account, demo assistant) on service ports typed from the OpenAPI spec.

TECHNICAL PROJECTS

Folio — multi-agent financial research · demo 2026

- **8-step guarded RAG chat** over 28 SEC filings: BM25, Gemini generation in strict JSON, verification of quotes, amounts, years and companies; abstains rather than invents.
- **4 LangGraph agents** (planner, researcher, verifier, writer) with HMAC-signed hand-offs; market data via **MCP** Yahoo Finance behind a read-only gateway.
- React 19, Node.js 22, Python 3.12 worker, hardened Docker; **Prometheus, Grafana, LangSmith** observability; Oracle Cloud + Cloudflare. **250+ tests**; red team: **165 attacks, 0 successful**, 0 false positives on 170 legitimate cases.

Prudential Evidence Lab — regulatory RAG assistant · demo Aug – Sep 2026

- Solvency II RAG: Docling/PyMuPDF, **BM25 + Gemini embeddings + RRF**, deterministic evidence gate (entity, period, required fields), COMPLETE / PARTIAL / CONFLICT / NOT_FOUND status and one citation per claim.
- **59 backend tests**, **30 golden evaluation cases** (100% citation precision, 0% false completeness on this set); hierarchical chunking benchmark: **MRR 0.603 → 0.693**.

MultiPix — multimodal photo search (final-year project, team of two) · code 2025 – 2026

- My scope: text → image and image → image search, hybrid multimodal RAG, clustering and indexing pipeline orchestration: FastAPI API, PostgreSQL, **Redis** queue, **TinyCLIP** embedding worker (SHA-256-pinned weights), **Qdrant**; full-text + vector **RRF** fusion, optional local VLM reranking.

SKILLS

Generative AI: hybrid RAG (BM25, FAISS, Qdrant, RRF), LangGraph, LangChain, MCP, OpenAI/GPT, Gemini, embeddings, Docling

Evaluation & observability: golden sets, citation precision, red teaming, LangSmith, Prometheus, Grafana

Application security: OWASP Top 10 for LLMs, prompt-injection defences, HMAC between agents, CSRF, 2FA, CSP, hardened containers

Backend & data: Python, FastAPI, Pydantic, Node.js, SQL, PostgreSQL, SQLite, REST/OpenAPI

Delivery: Docker, GitHub Actions, pytest, AWS (EC2, ECR, S3), Oracle Cloud, Cloudflare, Git

CERTIFICATIONS & TRAINING

Google Cloud Skills Boost — Machine Learning Operations (MLOps) Fundamentals · badge earned

Google Cloud Skills Boost — Develop Gen AI Apps with Gemini and Streamlit; Agent Governance and Security

Udemy — Deep Agent: Multi-Agent RAG with Gemini and LangChain (2026)

EDUCATION

ECE Paris — Engineering degree (MSc), Data & AI (2024–2026)

EFREI Paris — Computer science engineering track (2023–2024)

REFERENCES

Pierre-Michel Becquet — apprenticeship manager (2 years), Société Générale · pierre-michel.becquet@socgen.com
Jean Djeto — Senior Auditor, Audit & Inspection Générale, Société Générale · jean.djeto@socgen.com