

MATTHIEU CZARKOWSKI

AI Engineer: agents, evaluation and deployment

Forward Deployed / Applied AI Engineer •
local LLMs, security, enterprise integration

BASED Toulouse • open to Switzerland
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CALLS By appointment, via the website
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GITHUB github.com/la-ref
YOUTUBE youtube.com/@larefvlog

Full-time

Remote-friendly

Open to a role in Switzerland

Available immediately

ENSEEIH 2026 engineering graduate with three years at Thales Alenia Space (critical software, cybersecurity, offline LLMs). I build AI systems that **take actions** inside existing enterprise systems, then **evaluate** and **secure** them, from scoping to production.

PROFESSIONAL EXPERIENCE

AI engineer and consultant

Independent practice • Toulouse, France

SINCE SEP 2025

- **RELAIS**, a personal project run as a client engagement with a fictional client: a support agent that **acts** on billing, CRM and accounts behind a model-independent **policy gateway** (scope, provenance, identity, DLP, consistency). Red team: **14/14 attacks succeed without the gateway, 0/14 with it**, on a compromised model and on the real one; **19/24 business scenarios** and 6/8 hold-out cases passed with **Qwen 3.5 9B running locally**; **Stripe / HubSpot** connectors, semantic injection detection (1/30 → 17/30), **MCP** server, CI gated on the red team.
- **Models trained and evaluated locally**: a French LLM pre-trained from scratch (**PyTorch**), diffusion LoRA (+0.13 CLIP style gain), LLM LoRA, PPO; audience forecasting with **-21% error** under time-ordered validation (80% interval calibrated at 81%); a sourced RAG that knows when to abstain (0.95 precision).
- **ComfyUI** pipelines (17-node pack, Qwen-Image, Real-ESRGAN) and **n8n**, local inference (MLX, llama.cpp); a **local-vs-GPU sizing guide** from 18 measured workloads; **Black Forest Labs** creator partner since July 2026.
- **LaRefVlog**: **95.1M measured views** across 347 videos and **57,700 YouTube subscribers** (measured 18 October 2026); CTR and retention tracking.

Software and cybersecurity engineer, work-study

Thales Alenia Space • Toulouse, France

SEP 2023 — SEP 2026

- **Local LLMs in an air-gapped environment**: deployed and ran inference (Ollama, Qwen), connected workstations, maintenance; **fully offline**, under confidentiality constraints.
- **Gtxm ground encryptor: industrial C++ and cryptographic key management**; an **asynchronous Rust simulator** for ground-to-satellite encryption (final-year project, Sep 2026).
- **Product security audits**, penetration testing, vulnerability research and reporting; **offline CI/CD** (GitLab, Docker), hardening, IaC, production releases.

EARLIER

Alloa Voyages • full-stack internship, 2023: ERP migration to **Go / gRPC**, Python / Pyramid.

Skylord • systems and networks, 2021 — 2022: Docker.

TECHNICAL SKILLS

AI and LLMs

Agents and tool calling • MCP • RAG • evaluation (state checks, red team, pass^k) • LLM security (OWASP) • PyTorch • LoRA • MLX / llama.cpp / Ollama

Development

Python (FastAPI, Pydantic) • Go / gRPC • C++ • Rust • TypeScript • SQL • GitHub Actions / GitLab CI • Bash

Cloud and security

Docker • Kubernetes • Terraform • AWS • Linux, hardening • audits and pentesting • cryptography / PKI

Consulting and delivery

Scoping • action policy signed off by business owners • shadow → assisted → autonomous rollout • acceptance testing • runbook

EDUCATION

Diplôme d'ingénieur (MSc level), Computer Science and Networks **2023 — 2026** • ENSEEIH, Toulouse INP

Erasmus, Luleå University of Technology (Sweden)

2025 — 2026 • Systems cybersecurity, Cloud Security, Information Assurance, Risk Management; Sep 2025 — Jan 2026

BUT in Computer Science (2 years)

2021 — 2023 • ULCO, Calais

LANGUAGES AND INTERESTS

French: native

English: Cambridge C1 Advanced (2025)

Off screen: **national-level powerlifting**; cycling, bivouac

Following AI hardware and compute