Yacine Touati

Software Architect – Autonomous Agents & LLM Architectures · CTO

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Profile

CTO of LAMALO since April 2025, I design a multi-provider AI engine (one OpenAI-compatible API over many LLMs, with tools and agents) and the application that runs on it in production. After ten years in the French Army, I retrained as a developer in 2018: seven years of full stack development, including two in consulting, and solid teaching experience as a trainer and mentor for Udacity, OpenClassrooms and Wild Code School. I want to design autonomous agents and hybrid architectures (RAG, knowledge graphs, fine-tuning) within a demanding AI team.

Skills

Area	Technologies
AI / LLM	Autonomous AI agents, RAG, LangChain, LangGraph, multi-provider LLM integration (OpenAI spec), MCP, A2A protocol, function calling
Languages	Python (FastAPI, Pydantic, Flask), TypeScript / JavaScript / Node.js, Go, PHP (Symfony, Laravel), Java, Bash
Data	PostgreSQL (raw SQL, asyncpg), pgvector, MySQL, SQLite, MongoDB, Redis, Apache Solr, Protocol Buffers
Practices	Google Cloud (Cloud Run, Pub/Sub, Cloud Storage, Secret Manager), Docker, Kubernetes, GitLab CI/CD, software architecture, microservices, high-traffic websites, technical leadership, mentoring

Professional experience

Chief Technology Officer – LAMALO · Strasbourg · April 2025 – present

- Designed and built Lamalo Engine, a unified, future-proof interface to generative AI resting on three open standards in three layers: the OpenAI spec for multi-model inference, MCP for tools and connectors to external systems, and A2A for autonomous agents that understand unstructured input, act on their environment and make decisions without human intervention.
- Architecture of three containerized services on Google Cloud Run (OpenAI-compatible API, MCP tools server, A2A agents server): Python 3.14, FastAPI, Pydantic v2, LangGraph with checkpoints persisted in PostgreSQL, official MCP and A2A SDKs, vendor SDKs (OpenAI, Anthropic, Google, Replicate).
- Data and infrastructure: PostgreSQL in raw SQL via asyncpg (catalog, call ledgers, job state), semantic tool search with pgvector, async processing via Pub/Sub and Cloud Scheduler, files on Cloud Storage, per-client keys in Secret Manager.
- Engine in production, used by several internal projects and by the lamalo.ai application, its main public client.
- Led the target architecture and wrote the technical part of a Bpifrance R&D funding application (state of the art, technological barriers).
- Lead a team of 4 developers, working closely with sales and business development.

IT Consultant – Reboot Conseil · Strasbourg · January 2023 – April 2025

- Took over and stabilized a struggling client project (2024 – 2025, nearly a year) as technical lead on an offline-first app for the restaurant sector (Electron / Node.js desktop client syncing data to the cloud when the network returns, .NET Core web portal managing a fleet of devices); delivered all contractual deliverables.
- Elior, AI pilot (2023): after teaching myself deep learning (Practical Deep Learning, fast.ai), pitched directly to the CIO, alongside a business developer, a project to automatically read inmates' handwritten meal forms. Retrained a CNN on existing data and integrated it into the legacy system via ONNX; raised recognition from 30% to 70%, pilot delivered in 3 months.
- Elior, application maintenance (2023): WPF / C# desktop client for meal ordering in French prisons, under tight constraints (low-spec machines, limited connectivity, legacy tech). Quickly ramped up on a C# / WPF stack that was new to me.

Software Engineer – Future plc · March 2021 – August 2022

- Context: London-listed media group with about 250 brands (TechRadar, GamesRadar, Marie Claire…) and over 300 million monthly online users, about one in three internet users in the US and UK; affiliate-based business model where page speed drives SEO and therefore revenue.
- Full stack development, release and maintenance of very high-traffic websites optimized for performance and SEO.
- Built microservices in Go and PHP (Laravel, Symfony) with Apache Solr, Redis and MongoDB, data contracts shared through Protocol Buffers and Pub/Sub messaging; deployed on Kubernetes via advanced GitLab CI/CD pipelines.
- Worked in teams distributed across several time zones (autonomous teams of fewer than 10 engineers, each owning its stack).

CRM Developer / Integrator – DIVALTO · Strasbourg · January 2020 – March 2021

- Built custom features and performance indicators for Weavy CRM clients, on the web portal and the cross-platform mobile app (TypeScript, MySQL, SQLite, Divalto's proprietary language). Example: a field-intervention workflow for technical teams with geolocation, photo capture and checks of prerequisites (certifications) before, during and after each job.

Teaching and mentoring · 2021 – present

- AI trainer at EDHEC Business School (since 2025): regularly lead groups of 20 to 30 students during two-day AI hackathons for incoming cohorts, explaining AI from a technical angle.
- Web development and JavaScript mentor, OpenClassrooms (August 2021 – February 2024).
- Full Stack Session Lead, Udacity (July – November 2022): taught Python Flask and tracked learners' progress.
- PHP / Symfony trainer, Wild Code School (September – December 2022).

Early development roles · 2018 – 2019

- 53 JOURS: in-house ERP and client web app in PHP Laravel, plus a command-based Telegram chatbot with early natural language understanding experiments using Google Dialogflow.
- Sully Group, Ubicentrex, Domos Kit: full stack maintenance and development of web applications.

French Army · 2008 – 2018

- Arabic / French / English translator and team leader (2011 – 2018); radio operator and three-person team leader (2008 – 2011).

Education and languages

- **State-certified Software Developer diploma** (French "Titre professionnel", two-year post-secondary level) – AFPA Chartres, 2018.
- **Languages**: French and English (bilingual); Arabic (professional translator, 7 years).