

Jordan Serafini.

Full-Stack & AI Engineer

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PROFILE

Full-stack engineer who designs, builds and runs complete business applications in production – from the API to the offline-first mobile app – and integrates Machine Learning into them. Two and a half years of work-study experience at a business-software vendor and integrator, owning projects end to end, from architecture to production processes, with a high degree of autonomy. Available for a full-time position from September 2026. Currently completing an MSc in AI & Machine Learning (EQF level 7, DataScientest × Mines Paris PSL), on top of an Application Designer & Developer degree (EQF level 6). Comfortable from backend to deployment (Docker, Linux), with a specialty in business-system and ERP integration.

SKILLS

LANGUAGES	TypeScript, JavaScript, Python, SQL / PL-pgSQL
BACKEND	NestJS (microservices + API Gateway), Node.js / Express, FastAPI, REST APIs, OpenAPI/Swagger, JWT / Passport
FRONTEND	React, Next.js (App Router), Tailwind CSS, Radix UI / shadcn, TanStack Query, Zustand
MOBILE	React Native, Expo (SDK 54), offline-first (WatermelonDB), Expo Router, NativeWind
DATABASES	PostgreSQL, MS SQL Server, Redis, pgvector
AI / ML	scikit-learn, CatBoost / XGBoost, MLflow, MLOps (FastAPI serving, DVC), LLM / RAG / agents (OpenAI, MCP)
DEVOPS	Docker / Docker Compose, Linux, CI/CD (GitHub Actions), Nginx, Git, Tailscale

PROFESSIONAL EXPERIENCE

SLI (Solution Logique) — Full-stack engineer (work-study)

JAN. 2024 → PRESENT

available full-time from Sept. 2026

End-to-end development and technical ownership of internal and client business applications: responsible for architecture, technical choices, processes and production releases, with a high degree of autonomy.

- Designed, built and led a **full-TypeScript field-service ERP suite** (EBP App): NestJS 11 API (61 modules, 720 endpoints), Next.js / React 19 back office and offline-first Expo / React Native mobile app, in a multi-tenant monorepo architecture.
- Implemented a **non-destructive two-way synchronization** with a closed proprietary ERP (EBP, MSSQL): transactional Outbox pattern, ERP-format file generation, VPN transfer and import orchestration, with exponential-backoff retry.
- Built the **offline-first mobile app** for field technicians (WatermelonDB, 13 local models, delta sync, biometrics, signatures, geotagged photos, PDF report generation).
- Built a **data-driven platform** on top of ERP data: Bronze/Silver/Gold medallion ETL on PostgreSQL and 5 Machine Learning models in production (budget-overrun prediction with a CatBoost/XGBoost/LightGBM stacking ensemble, R^2 0.88; anomaly detection with Isolation Forest; revenue forecasting with Prophet), served through a decoupled FastAPI microservice, with SHAP interpretability and MLflow tracking.
- Led a **legacy ERP migration** (Batappli / HyperFile, ~145 tables) and the integration of an RMM (NinjaOne) via OAuth2 and a dedicated microservice (knowledge-base clustering with pgvector embeddings).
- Delivered **IT consulting / audit** assignments (scoping and data analysis for a construction-industry client).

KEY PROJECTS

Compagnon Immo — real-estate price prediction (Master's capstone)

Python · scikit-learn · Optuna · SHAP · Streamlit

Price-per-m² regression on ~5.9M listings (101 French departments), Optuna-tuned RandomForest enriched with INSEE socio-economic data. R² 0.958 / MAE €159/m², 73% of estimates within ±€100/m². Data leakage identified and fixed, SHAP interpretability, Streamlit demo.

SportPoint — sports-coaching app in microservices

NestJS · Prisma · PostgreSQL · React Native/Expo · Docker

6 NestJS services including an API Gateway (auth, coaching, spots, chat, notifications), 318 endpoints, 47 Prisma entities, containerized (Redis, MinIO). Expo mobile app (~61 screens): tracking, coach booking, real-time chat, geolocation, gamification.

GreenRoot — plant e-commerce (bootcamp final, team project)

NestJS 11 · Prisma · PostgreSQL · Stripe · Next.js 15 · Docker

Complete e-commerce site in a containerized monorepo: catalog, cart, checkout, Stripe payments, auth/RBAC, Swagger docs, Jest/Supertest tests and Artillery load testing. Main contributor.

AURA — personal multi-agent AI orchestrator (R&D)

Python · MCP · FastAPI · Docker/systemd · Linux

Autonomous multi-agent system running continuously (fleet of Python agents, MCP server exposing the tools, cron + event-driven scheduling, observability). My playground for agentic-AI patterns.

EDUCATION

MSc in AI & Machine Learning (EQF level 7) – DataScientest × Mines Paris PSL, work-study	SEPT. 2025 → SEPT. 2026
Application Designer & Developer (professional degree, EQF level 6) – O'clock, work-study	2023
Web / mobile-web developer training – O'clock	2023

LANGUAGES

French (native) · English (good professional level, read/written; daily technical reading in English)