

Adam Boudjemaa

AI / Agent Engineer · Production Multi-Agent Systems, RAG & LLM Fine-Tuning · ex-CTO

**200+**
subagents authored
21 plugins, 190+ MCP tools

**\$3B**
AUM served by AI
platform
11-agent RAG, NDA client

**1,300+**
tests across the stack
gated review + evals

**60%**
infra cost cut
~\$40k/yr, evidence-led

CONTACT

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STANDARDS

ERC-3643 (T-REX) FINAL
Named author (1 of 5) · The
permissioned and security-token
standard behind regulated on-chain
securities. Today: \$32B+ in assets
tokenized on the standard; cited by
name by the SEC Chairman (2025).

ERC-6960 (Dual Layer Token) DRAFT
First author (1st of 6) · Multi-class real-
world assets.

ERC-7410 DRAFT
Co-author (2nd of 3)

Agent Authority Protocol (in progress)
A 4-function interface binding AI agents to
authorized principals; comment submitted to
NIST.

SKILLS

AI and Agents

- Multi-agent orchestration
- Claude Code (Agent SDK, MCP, hooks, plugins)
- MCP servers
- RAG
- pgvector
- agent evals
- red-teaming
- cost-aware LLM routing
- CrewAI
- Agno

LLM and ML

- LLM fine-tuning (MLX)
- LoRA / QLoRA
- DPO
- MoE (30B-A3B)
- verifiable-reward training
- on-device inference
- document-forgery detection

Summary

Production AI-agent engineer who ships end to end: multi-agent orchestration, RAG systems, MCP servers, evals, and on-device LLM fine-tuning. Built an 11-agent AI platform in production for a ~\$3B-AUM US real-estate fund and authored ~21 Claude Code plugins (200+ subagents, 190+ MCP tools, 1,300+ tests). Also a named author of ERC-3643, a Final Ethereum standard, a rare combination for AI-in-regulated-finance. As ex-CTO I owned a full production stack, so I build agent systems that survive real infrastructure.

AI / Agent Engineering

- Enterprise AI platform for a ~\$3B-AUM US real-estate private-equity firm** (via llayer, client confidential): a FastAPI + Postgres/pgvector RAG backend with 11 retrieval-augmented agents, cost-aware LLM middleware, anti-hallucination (verified citations, abstention), evals and red-teaming, and AWS; plus an AI document-fraud pipeline (custom true/false models + LLM field extraction) for applicant and tenant screening.
- Agent engineering at scale:** ~21 Claude Code plugins, 200+ specialized subagents, and 190+ MCP tools on repeatable patterns (gated review, evidence ledgers, drift checks, typed tool execution, deterministic hooks); 1,300+ tests across the stack.
- On-device LLM fine-tuning:** Qwen 7B/8B and a 30B-A3B MoE on Apple Silicon with MLX (SFT-LoRA, 4-bit QLoRA, custom DPO, verifiable-reward fine-tuning); a distilled 7B writer beat the 30B baseline on code generation (6/14 vs 3/14 compiling).
- Open source:** bounty-lab, an autonomous multi-agent Web3 audit pipeline (7-gate, 126+ findings); ui-ux-suite (npm, 311 tests) and sniff (441 tests); a 100+-star AI-writing humanizer; contributions merged into Google’s Gemini CLI, viem, Foundry, and OpenZeppelin.

Experience

AI Engineer (Forward Deployed) llayer 03/2026 – 07/2026

- Forward-deployed inside a ~\$3B-AUM US real-estate private-equity fund (alongside the Integra hand-over): designed and shipped the 11-agent AI platform above (RAG on FastAPI + Postgres/pgvector, cost-aware LLM middleware, evals, red-teaming, AWS) plus the AI document-fraud detection pipeline, through to production in the client’s stack.

Backend and Data

FastAPI

Python

Postgres / pgvector

Node.js

REST APIs

AWS (RDS, EC2, S3)

Full-Stack

TypeScript

Next.js 15

React

Supabase

Go

Smart Contracts

Solidity

Yul / EVM assembly

ERC-3643 / 6960 / 4337

security auditing

EDUCATION

42 Paris Computer Software Engineering (2014-2018). Peer-to-peer, project-only: C and systems programming, a from-scratch virtual machine, and offensive-security practice.

ADVISORY

Mentor at Outlier Ventures, Startup Wise Guys, and Startupbootcamp, advising Web3 and B2B founders on architecture, security, and market entry.

LANGUAGES

French (native) · English (full professional)

Chief Technology Officer **Integra**

03/2025 – 06/2026

EVM Layer-1 for real estate RWA. Owned protocol, contracts, infrastructure, security, and AI systems, and built the engineering org from scratch.

- Drove AI-first delivery (specs, edge cases, QA scenarios, docs) across the org and deployed ~46 AI agents for internal operations.
- Ran the L1 end to end (Cosmos EVM fork, 4 validators across 4 clouds, CI config-drift checks); public testnet closed at 600K users (company metric).
- Cut the production AWS bill 60% (~\$40k/yr) with evidence over budget; recovered an 80-minute Cosmos chain halt with a durable GOMEMLIMIT fix.

Co-Founder and Lead Developer (part-time) **Solichain**

01/2024 – 01/2026

- AI became central to what we built: designed AI-agent architectures for client projects (autonomous trading bots, portfolio managers, compliance automation) and prototyped the multi-agent coordination patterns behind later production AI systems. Co-founded the studio and led RWA tokenization and compliance across multiple chains.

Blockchain Technical Lead **Biconomy**

08/2023 – 10/2024

- Started applying AI systematically to blockchain infrastructure: AI-assisted code review and vulnerability detection in CI/CD, and smart-account infrastructure that lets AI agents execute gasless transactions for users. Led SDK and modular smart-account engineering (ERC-4337 / ERC-7579) across infrastructure that processed 38M+ transactions and \$441M in transfers.

Lead Blockchain Engineer **Polytrade**

09/2021 – 09/2023

- In the role's later phase, started using AI to accelerate smart-contract work: prototyped AI-assisted contract analysis for security scanning and gas optimization, and introduced LLM-based workflows into the dev and testing pipeline.
- Architected and shipped a Real-World Asset marketplace and CeDeFi systems on an EVM L2 (\$12M+ TVL); led development of ERC-6960; managed 10+ engineers with zero major vulnerabilities across 100+ reviews.

Blockchain Developer **Tokeny Solutions**

10/2019 – 02/2021

Securities tokenization. The foundational ERC-3643 work.

- Named author of ERC-3643 (T-REX), a Final Ethereum standard for permissioned and security tokens; built the compliant token suite and OnchainID on-chain identity.

Earlier

2014 – 2021

Securrency (CAT-20/721 compliance protocols; acquired by DTCC in late 2023), Fantom Foundation (now Sonic Labs; staking-contract and CI hardening), Equisafe (first smart contracts of the platform that later ran Europe's first on-chain real-estate sale), ArcelorMittal (enterprise IT security), and Digital Blockchain Technology (co-founder, raised €150k+, TV5MONDE).