

Adam Boudjemaa

AI Engineer for Regulated Finance • Author of ERC-3643 (T-REX, Final) • Production AI Agents for a \$3B Fund

4
Ethereum standards authored
ERC-3643 Final; Agent Authority in progress

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

200+
subagents authored
21 plugins, 1,300+ tests

\$32B+
tokenized on ERC-3643
cited by the SEC Chairman

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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
- LLM fine-tuning (MLX, LoRA / QLoRA / DPO)
- evals red-teaming
- document-forgery detection
- CrewAI Agno

RWA and Compliance

- ERC-3643 (T-REX)
- OnchainID
- permissioned tokens
- Asset Passport

Summary

I build AI systems that hold up in regulated finance: an 11-agent platform in production for a ~\$3B-AUM US real-estate fund, with verified citations, evals, and LLM cost caps. Before that, ten years of blockchain: I am one of the named authors of ERC-3643 (T-REX), the Final Ethereum standard behind \$32B+ in tokenized assets, cited by name by the SEC Chairman. The rare pairing of the compliance standard and the AI that runs on top of it. Built and ran an EVM real-estate RWA Layer-1 end to end as CTO of Integra, and I can defend every figure below.

AI for Regulated On-Chain RWA

- 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 agents, cost-aware LLM middleware, anti-hallucination (verified citations, abstention), red-team/evals, and AWS; plus AI document-fraud detection for applicant and tenant screening. Regulated-finance domain and agent engineering in one person.
- Agent Authority Protocol** (in progress): a 4-function interface binding AI agents to the KYC-verified principals who authorize them, so existing compliance checks can see the human behind an agent address. The missing piece for agents acting on regulated RWA. Comment submitted to NIST.
- Agent engineering portfolio**: ~21 Claude Code plugins, 200+ specialized subagents, 190+ MCP tools, and 1,300+ tests (gated review, evidence ledgers, drift checks, typed tool execution); plus on-device LLM fine-tuning (Qwen 7B/8B and a 30B-A3B MoE on MLX, LoRA / QLoRA / DPO).
- Open source**: bounty-lab, an autonomous 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 plus the AI document-fraud detection pipeline, through to production in the client’s stack.

KYC/KYB gating

on-chain compliance

tokenization

Smart Contracts

Solidity

Yul / EVM assembly

Foundry Hardhat

OpenZeppelin

ERC-6960 / 7410 / 4337 / 7579

gas optimization

Infrastructure and Cloud

AWS FinOps

Cosmos SDK CometBFT

validator ops Docker

CI/CD Postgres

Full-Stack

TypeScript Python Go

Next.js React FastAPI

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 across the org and deployed ~46 AI agents for internal operations; defined the L1’s core primitives (on-chain Asset Passport identity, compliance and escrow, milestone settlement, fiat proof-of-payment, native commission enforcement).
- Shipped the L1 end to end: forked the Cosmos EVM stack, ran a pre-launch RPC security audit (25 fixes), 4 validators across 4 clouds; 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, with governments, regulators, and sandboxes.

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 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 (T-REX, ERC-734/735/1400) and OnchainID on-chain identity.

Earlier

2014 – 2021

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