

Arash Banaeian

Systems Architect & Senior Engineer · AI-native SaaS, integrated platforms, user-facing AI

Give me the goal; the specification, architecture and edge cases are my job. Last time: a regulated e-signature, identity and PKI platform, live in 70 days as its only engineer.

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914K

lines of code since February
308K of them tests

0

API server errors
in 30 days; p50 40 ms

5.8×

the old platform's best month
before any marketing

EXPERIENCE

eIEMZA · CTO & Systems Architect, sole technical owner

Jan 2026 – now

Regulated e-signature, identity and PKI platform.

- **One SaaS platform, 12 subsystems, not a tool stack:** PAdES signatures via a licensed CA, KYC with face match, finance, billing and invoicing, multi-tenant organisations with role-based access, forms on scanned originals, SMS and mail, a REST API with signed webhooks, SDK and WordPress plugin, three AI systems. Now in progress: an ERP-style core joining CRM, sales, chatbot, blog and notifications to finance and HR.
- **≈914K lines of code since February, 308K of them tests:** 4,462 commits, 266 in a single day, written by AI coding agents under my architecture and an agent harness I built: 23 rule files, 18 hooks, 8 review agents, 100 observed failures each turned into a mechanical guard.
- **99.98% of 491K requests without a server error** (4–30 Sep 2026); API: 0 server errors in 30 days, p50 40 ms, p99 127 ms; 220+ releases since May with instant rollback; one 4-core server at ~5% CPU, measured at ~61,000 API contracts a day.
- **Survives a failing identity registry:** 1,052 outage events on 41 of 46 days absorbed by circuit breakers, a cache that answered 46% of 12,334 lookups, and a retry queue that recovered 92% of failed checks in September.
- **5.8× the old platform's best month, before any marketing:** 2,167 contracts in September 2026 vs 372; monthly sending customers 16 → 74 since May; median time to fully signed down from 14 to 8 minutes.

BITA · Founder

2023 – 2025

Multi-channel AI sales agent.

- **Sales agent, conversational CRM and bulk marketing in one multi-tenant system** on WhatsApp, Instagram and Eitaa: discovery, quote, payment evidence read from a receipt photo, hand-off to a human.
- **Reflective agent on FastAPI + Qdrant, 72 endpoints, 270 tests:** reflection turns related memories into higher-level insights about each customer's personality and behaviour, used in the conversation; sales strategies under live A/B tests.

EduGPT · Founder & AI Systems Architect

2023 – 2025

Persian-first AI tutor.

- **Answers cite page and paragraph:** OCR ingestion and hybrid retrieval (dense + BM25, reciprocal-rank fusion, reranking) over a textbook rebuilt as structured knowledge.

Poian · Co-founder & R&D Lead

2020 – 2023

Talent-assessment centre.

- **4,000+ people assessed in one integrated workflow** from intake and six psychometric instruments to scoring, a three-advisor commission and reporting. Still operating; I remain a shareholder.

SKILLS

Architecture	UML, BPMN, DFD, ERD, C4, DDD, ADRs · PRD, SOW, business plans
Platforms	Multi-tenant SaaS (B2B and consumer), RBAC, CRM, ERP-style finance and HR, commerce and payment gateways, omnichannel messaging, OCR, RTL and i18n, SEO and CMS · PKI, PAdES, KYC
Backend & ops	PHP 8.3, Laravel 12, Python, FastAPI, Django · PostgreSQL + pgvector, Redis · Kafka, RabbitMQ · REST, GraphQL, gRPC, WebSockets · Docker, CI/CD, Linux, Nginx, Grafana
AI & agents	Agent harnesses, adaptive and cognitive agent architectures · LangGraph, LangChain, LlamaIndex, Langfuse, RAGAS, LoRA · GNNs, reinforcement learning, genetic algorithms, time series

EDUCATION

B.Sc. Computer Engineering (Information Technology), Islamic Azad University

Full CV with the architecture, the governance system and the contracts chart, and the eIEMZA case study: elemza.com/arash ·

Figures for September 2026, measured 6 Oct 2026