

Ismail Iusifli

Backend Engineer · TypeScript, Python, PostgreSQL · Payments, Auth, Integrations

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SUMMARY

Backend engineer who builds the parts of a product that are expensive to get wrong: concurrent billing, payment webhooks, auth and LLM features. Sole engineer of the production platform behind an online school with 300+ active students a month, and of a CRM + LMS for an external client used by 25 staff across 3 branches. Works end to end, from schema design to deployment.

EXPERIENCE

Backend / Full-Stack Engineer · Perezagruzka, online exam-prep school

Mar 2026 – Present · Remote · Contract

- Built the company's platform solo, replacing a rigid off-the-shelf CRM: public site, operational CRM and LMS behind one edge proxy with cross-subdomain SSO, running daily operations for 300+ students and the teaching staff.
- Made lesson billing race-safe: after a review showed `SERIALIZABLE` + `FOR UPDATE` aborting concurrent writes, redesigned it around `READ COMMITTED` with an explicit, deadlock-free lock order (open-sourced below).
- Payment webhook pipeline with timing-safe secret check, IP allowlist, idempotency keys and server-side re-verification, so no payment is credited twice or without provider confirmation.
- Three LLM features in production (DeepSeek via an OpenAI-compatible API): a streaming AI tutor in the LMS, a personalised report generator with prompt-injection sanitising, Zod validation and hard timeouts, and a public demo chat.
- Payroll engine with mid-cycle proration; idempotent lead-to-student conversion; Telegram onboarding bot.
- Enumeration-safe login (dummy bcrypt compare), Postgres-backed rate limiting, per-request access checks on presigned storage URLs and embedded video from 6 providers.
- ~1,500 test cases plus a 24-check suite asserting financial invariants against a real database.

Freelance Software Engineer · Self-employed

Jun 2026 – Sep 2026 · Remote

- Built a CRM + LMS for a multi-branch study-abroad admissions company moving SAT/IELTS programs online, now used by 25 staff across 3 branches to manage 200+ students. Client won through cold outreach.
- Shipped a lead-capture website feeding applications directly into the client's pipeline.

OPEN-SOURCE PROJECTS

edtech-billing-core · TypeScript, PostgreSQL, Vitest, GitHub Actions · github.com/alt-f6/edtech-billing-core

Billing core extracted from the platform above: append-only ledger enforced by a database trigger, deadlock-free locking for concurrent attendance marking, and a payment webhook that re-verifies every payment with the provider. 104 integration tests on real PostgreSQL, including deterministic concurrency interleavings and randomized ledger invariants that caught a real double-refund bug.

cleanroom · Python, FastAPI, Gemini, Next.js · github.com/alt-f6/cleanroom

LLM trading agent built for the failure case: the only model has no tools and trade/veto decisions are deterministic code, so a fully hijacked model can't place an order. 0 of 15 hardened prompt-injection attacks got through in the project's benchmark. Alpaca × lablab.ai AI Trading Agents Hackathon, 2026.

SKILLS

Backend: TypeScript, Python, Node.js, Next.js (App Router, Server Actions), React, FastAPI, asyncio, REST, webhooks

Data: PostgreSQL (isolation levels, row locks, indexing), Prisma, S3-compatible storage

AI: OpenAI-compatible LLM APIs, streaming responses, structured output validation (Zod)

Infra: Docker, Ubuntu VPS, Caddy, systemd, Git, GitHub Actions

Testing: Vitest, pytest

EDUCATION & LANGUAGES

School-Lyceum No. 20, Baku (technical and natural sciences track) · English (C1), Russian (native), Azerbaijani (conversational)