

TIMUR KADYRBEKOV

Backend Engineer | Python, TypeScript and LLM Systems

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Summary

Backend-focused full-stack engineer with production TypeScript experience since 2021 and recent hands-on work in Python-based LLM evaluation. I build typed service boundaries, schema-validated model outputs, failure-aware provider integrations and evaluation pipelines that can be reproduced in CI. My commercial background includes PostgreSQL schema design, NestJS APIs, concurrency control, queues, multi-tenant systems and production support.

Core Skills

Python: Pydantic, pytest, mypy strict, Ruff, data pipelines, provider adapters and evaluation tooling

LLM Systems: Structured outputs, schema validation and repair, retries, timeouts, failure classification, grounding checks, calibration and cost tracking

Backend: TypeScript, Node.js, NestJS, PostgreSQL, Prisma, TypeORM, Redis, BullMQ and REST APIs

Testing and Delivery: Recorded-response regression tests, integration tests, GitHub Actions, Docker and Docker Compose

Selected Engineering Work

OOBench | *Python LLM evaluation harness* | github.com/spelingbee/OOBench

- Built and published a resolver benchmark that scores model output against 50 externally settled Polymarket and UMA questions instead of a model judge.
- Defined strict Pydantic response contracts, one repair attempt for malformed output, grounding checks for cited source identifiers, and separate handling for provider, schema, harness and safety failures.
- The initial run found that 36 percent of answers assigned at least 90 percent confidence were wrong. Results are reported with naive baselines, Brier score, calibration error, Wilson intervals and paired tests; manual evidence review remains an explicit pending limitation.
- CI runs Ruff, mypy strict and pytest against 182 recorded provider responses with no API key or network access.

Kataloga | *LLM-enabled commerce platform* | kataloga.org

- Implemented free-text order extraction against each merchant's catalogue, with validated JSON output and a manual-review fallback rather than accepting uncertain orders.
- Built the surrounding multi-tenant NestJS and PostgreSQL platform, Telegram bot webhooks, WhatsApp integration and Nuxt storefronts.

NomadCore | *Backend correctness under concurrency* | github.com/spelingbee/NomadCore

- Built a NestJS and PostgreSQL booking core whose anti-overbooking path uses a serializable transaction, row lock and retry on serialization failure.
- Added a transactional outbox, idempotent BullMQ jobs and an integration test that proves only one of two competing bookings succeeds. The Nuxt 4 application currently runs locally through Docker Compose.

Professional Experience

Founder and Lead Developer | TK Projects LLC

Jul 2026 - Present

Bishkek, Kyrgyzstan

- Built and now support a production accommodation-classification platform under an official contract in Kyrgyzstan.
- Own the NestJS, Prisma and PostgreSQL backend, including role-scoped access, deterministic expert assignment and the current bank-payment integration.

Full-stack Developer | Combo Agency

Apr 2023 - Jul 2026

Bishkek, Kyrgyzstan

- Shipped Vue and Nuxt products across seven-plus B2B projects in a team of about ten; also built REST search and filtering over backend services.
- Reviewed code and worked directly with clients to convert incomplete business requirements into production features.

Full-stack Developer | Vignette ID

Jul 2021 - Mar 2023

Bishkek, Kyrgyzstan

- Built a road-toll marketplace covering eight European markets across NestJS, PostgreSQL and Vue/Nuxt.
- Redesigned the database and API layer, replaced interpolated SQL with parameterised queries, automated reporting and introduced CI/CD practices.

Web Developer | Freelance

Jul 2020 - Jul 2021

Part-time

- Delivered small Vue, Nuxt and Node.js applications for local business clients from schema design through deployment.

Education and Languages

BSc Computer Engineering | Kyrgyz-Turkish Manas University | 2024-2029 expected

Languages: Russian and Kyrgyz native; English professional working proficiency