

Anuar Sunkarovich

Backend & Systems Engineer

Astana, Kazakhstan | me@an8kk.dev | +7 706 659 28 05 | an8kk.dev
github.com/tempoloss | t.me/tempoloss

Professional Summary

Backend engineer working where partial failure is the normal case: queues, query plans, access control, and delivery into restricted environments. At the Agency for Financial Monitoring I moved a heavy analytical workload off ClickHouse and rewrote its query paths, taking 10–15 second lookups to sub-second. Outside work I publish the infrastructure I could not find ready-made — a Redis queue that survives a worker dying, a deterministic database seeder, a failover gateway over five search providers.

Technical Skills

Backend & APIs: Python, FastAPI, Litestar, Go, TypeScript, Node.js
Databases & Messaging: PostgreSQL, ClickHouse, Redis, NATS, MinIO, S3
Data & Application Layer: SQLAlchemy, Alembic, Pydantic, Dishka, XML processing, Excel data pipelines
Frontend & Mobile: React, Next.js, Flutter
DevOps & Security: Docker, Linux, GitHub Actions, GHCR, JWT, HMAC-SHA-256, ABAC, proxy networking
Testing: pytest, Go test with race detector, Playwright end-to-end
Languages: Kazakh (Native), Russian (Native), English (Fluent)

Professional Experience

Full-Stack / Backend Developer Jan. 2026 – Present
Agency for Financial Monitoring (AFM) Astana, Kazakhstan

- Built the backend and React/TSX frontend for several analytical case-management platforms used in financial-crime work, from schema to shipped UI.
- Entity resolution across mismatched government registries: unified person and company profiles with ownership history, related parties, employees, and traceable evidence sources.
- Enforced Attribute-Based Access Control by region and role on both reads and writes, closing subtle scope-bypass paths and hardening authentication across services.
- Migrated a large analytical workload from ClickHouse to PostgreSQL; replaced expensive `OR` conditions with `UNION` and eliminated `N+1` patterns via `selectinload`, cutting heavy lookups from 10–15 seconds to sub-second.
- Built geospatial region mapping over Kazakhstan with year-versioned inference layers and access-scoped tile delivery.
- Engineered large-scale text-similarity detection: BM25 retrieve-then-verify over an OpenAlex corpus exported from PostgreSQL via DuckDB, with sharded parallel indexing.
- Built a bank-statement parsing pipeline (upload to deterministic parse to normalized, exportable transactions), SMTP credential workflows, S3 terabyte storage, XML/EDS legal documents, and air-gapped CI/CD.

Backend Engineer May 2025 – Aug. 2025
VBox — IoT vending startup Astana, Kazakhstan

- Built the operator-facing backend for a connected vending fleet: machine health, inventory state, administrative actions, and metrics.

Independent Software Engineer & Technical Consultant Jan. 2025 – Present
Freelance Remote / Kazakhstan

- Backend systems, cross-platform MVPs, B2B integrations, and secure APIs under tight timelines: anti-captcha browser automation parsing 8,000+ pages per hour, server-authoritative game backends, a payment gateway with HMAC-signed idempotent transaction flows, catalogs, and food-delivery mobile apps.

Selected Engineering Projects

Moxy Go | Redis | Open Source
Reliability layer for Redis queues. A lease is a claim with an expiry, so an unacknowledged task returns to the queue instead of vanishing with its worker. Every lease transition is journalled to an append-only WAL before it happens, so a restart replays in-flight work rather than stranding it. CI runs the race detector and the full suite against a live Redis.

ChessView Python | FastAPI | WebSockets | React
Full-stack owner of a realtime chess platform with server-authoritative state: the server owns the board and every clock, so a client cannot assert an illegal position. Clocks pause on disconnect instead of forfeiting, engine analysis runs client-side, and ratings and tournaments are resolved server-side. Playwright end-to-end tests in CI; three container images published per release.

Search Gateway Python | FastAPI | Redis
High-availability middleware over five search providers. Every failure is attributed to the key, the provider, or the caller before a retry is considered, so a malformed query cannot burn a whole credential pool re-asking for the same 400. Circuit breaking, atomic Lua key-pool rotation, response cache as last resort. 141 tests, Redis-backed suite in CI.

db-seed Go | CLI | Database Tooling
Seeding utility with automated schema discovery and DAG topological sorting for dependency-safe population; cycles broken through nullable columns. Determinism is verified by repeating the sort twenty times in CI, since one green run cannot distinguish a correct ordering from a lucky one.

Education

Software Engineering 2023 – 2026
Astana IT University (AITU) College Astana, Kazakhstan
Graduated with Honours (Red Diploma). Continuing to Astana IT University for a bachelor's degree.