

Pavel Savinov

Backend Software Engineer (Go)

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Based in Belgrade; open to relocation with work-permit sponsorship

Professional Summary

Backend engineer specializing in Go (Golang), high-load distributed systems and search-results services at Aviasales, Avito and Uzum. Freed ~1 GB RAM per instance across hundreds of instances. Own backend delivery from PRD to production, including PostgreSQL data modelling, Kafka workflows, SLOs and production troubleshooting. Personal projects include web data collection; familiar with web crawling.

Core Competencies

Go / Golang | Distributed systems | Search-results APIs | Performance and profiling | Data storage | Kafka | Reliability and SLOs

Work Experience

Senior Go Engineer - Uzum Market (Uzum Technologies)

Apr 2026 - Sep 2026 | Remote

Largest e-commerce and fintech group in Uzbekistan and its first unicorn. Sorting Center team: backend for the marketplace's parcel sorting warehouses; nearly all cross-service interaction is asynchronous over Kafka.

- Took phase 2 of the sorting-center program (3-stage wall-and-cell sorting) from PRD to production in 4 months: domain and PostgreSQL data model, Kafka integration via transactional outbox, most of the service built myself; live at the first sorting center, rollout to ~10 centers planned.
- Designed the routing engine: per-item routes precomputed by a reverse walk over the wall and cell graph, random tie-break to balance load across duplicate walls, topology checks that guarantee a single route per item.
- Encoded sorting rules as domain invariants in a dedicated stage-transition module; closed an authorization gap that let scan, move and bind operations target another warehouse's walls; defined SLOs for core sorting operations.

Backend Engineer (Go) - Aviasales (Go Travel Unlimited LTD)

Mar 2024 - Apr 2026 | Remote (Zagreb, Croatia in 2024-2025)

Leading flight search and booking platform in the CIS (~15M monthly active users). Search results API.

- Improved search-results API latency through pprof-driven profiling, caching and request shaping.
- Freed ~1 GB of RAM per instance (~30%) across hundreds of instances by fixing memory leaks and retuning caches, cutting infrastructure cost and improving stability.
- Wrote the design for a new search-results storage across three data centers (AWS, Yandex Cloud) from access-pattern analysis and load projections; it started the redesign, which the Search team then built in its own way.
- Designed and shipped a backend-driven badges system with a dynamic token model, built on configs and the expr expression language: moved badge logic from iOS, Android and web clients to the backend; rollout went from ~1 sprint plus mobile releases to a 30-minute config change, enabling consistent cross-platform A/B experiments.

Backend Engineer - Avito

Aug 2022 - Dec 2023 | Remote

One of the largest classifieds platforms (~50M monthly active users). Paid promotions (value-added services) and Billing integration; Go and PHP.

- Owned SLOs, alerting and tail-latency and timeout fixes across 20+ promotion microservices, keeping 99.9%+ availability at ~3.5k RPS.
- Migrated a ~3.5k RPS Redis cache from a single instance to a sharded cluster with a phased ramp-up; documented the TTL pitfalls to avoid user-facing impact.
- Designed the one-switch, feature-flagged cutover of promotions from the legacy implementation to the new architecture, with fail-safes and rollback; delivered the end-to-end Billing integration of a new paid feature.

Software Development - FEIP / 7glyphs / Freelance

Before 2018 | Earlier commercial experience

Assistant Lecturer - Far Eastern Federal University

Sep 2019 - Jul 2020 | Vladivostok, Russia

- Taught Databases (PostgreSQL) and Web Programming to 50+ students; built course materials, quizzes and exams around real-world projects.

Skills

Programming: Go (Golang; concurrency, pprof profiling, code generation), Python (tooling), SQL, PHP

Data and messaging: PostgreSQL (schema design, indexing, query plans, migrations, partitioning), Kafka, Redis Cluster, KVRocks

Architecture: distributed systems, microservices, event-driven design, transactional outbox, idempotent consumers, feature-flagged rollouts

Reliability and observability: monitoring and alerting (Prometheus, Grafana), distributed tracing (Jaeger, OpenTracing, OpenTelemetry), ELK, SLO/SLI design, on-call, incident response and root-cause analysis

Cloud and delivery: Docker, Kubernetes, CI/CD, Yandex Cloud; AWS, Terraform and Helm (working knowledge)

APIs: REST, gRPC and Protobuf, OpenAPI, JWT and Keycloak

Testing: unit, integration (testcontainers), property-based and fuzz tests

AI-assisted engineering and LLM apps: Claude Code, Codex CLI, MCP servers, agent skills, custom agent harness; Anthropic and OpenAI APIs

Languages: English (C1), Russian (native)

Projects

- Web data collection (personal): collected data from VK while working on a VK API library; built a vehicle-data collection project for reports.
- Airbag (personal): a sandbox for controlled execution of AI-agent tasks.
- Graph LLM Chat (personal, TypeScript): local-first branching chat UI for LLMs with token accounting, auto-summarization at context limits, streaming and multi-server MCP integration.

Education

M.Sc., Applied Mathematics and Informatics, Far Eastern Federal University, 2017-2019

B.Sc., Applied Mathematics and Informatics, Far Eastern Federal University, 2013-2017

Doctoral coursework, Computer and Informatics Sciences, Far Eastern Federal University, 2019-2022 (program completed, no dissertation)