

ASSYLZHAN NYUSSUPOV

Senior Backend Engineer · Go · Distributed Systems · AI Agent Infrastructure

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TECHNICAL SKILLS

Languages: Go (6+ yrs, primary), Python (3 yrs), TypeScript, SQL (6+ yrs)

Distributed systems: Temporal (5 yrs), Kafka, gRPC, PostgreSQL, DynamoDB (5 yrs), Redis, CQRS

Cloud & operations: AWS (5 yrs), Kubernetes, Terraform (5 yrs), Docker, Datadog, Prometheus, OpenTelemetry

AI & agent infrastructure: MCP servers (Go), agent harnesses and evals, RAG (Qdrant), OAuth 2.1 for AI tools

PROFESSIONAL EXPERIENCE

Senior Backend Engineer | Shopware

Jul 2025 – present | Remote, Germany

On the core team behind Shopware Nexus, the event-driven integration platform (iPaaS), GA since May 2026.

- Designed and shipped the **Temporal-based workflow engine** that executes every Nexus integration, **first commit to GA cutover in three months (Feb–May 2026)**, on a Terraform-owned AWS stack (self-hosted Temporal, ECS, KMS), scaled across 16 Kafka partitions at hundreds of thousands of merchant events a day.
- Implemented the **universal AI-assisted connector** on a registry-driven framework of 20+ self-contained Go connectors: integrations become declarative descriptors run by one generic executor, **drafted by AI from an API spec and reviewed by the merchant in chat** before it persists, with curated descriptors (Magento, WooCommerce, Odoo, ERPNext), OAuth2 PKCE auth, and SSRF/DNS-rebind guards, **cutting new-integration delivery from weeks to days**.
- Embedded **two MCP servers** in the platform API: one powers an AI chat panel that generates complete workflows from natural language, the other is a merchant-facing **OAuth 2.1 resource server (RFC 9728/8707)** with per-tenant rate limits and audit logging. Also built the org's docs-search MCP server with **hybrid RAG retrieval over Qdrant**.
- Built an **autonomous connector factory** on the Pi SDK (pi.dev): coding agents research third-party APIs and ship full-stack connectors, gated by an **LLM eval harness** of critic sessions grading each stage: **a new connector every few days instead of a sprint of engineering each**.

Senior Backend Engineer | Wildberries

Mar 2023 – Jul 2025 | Remote

Largest e-commerce marketplace in the CIS; field-services platform for 16,000+ partner pickup points.

- Owned the **order-management core** of the platform: a Go service with ~345 gRPC/REST endpoints serving ~**1.5K RPS at peak** across four production Kubernetes clusters (Helm, HPA), instrumented with OpenTelemetry and Prometheus.
- Rebuilt the order state machine into a **data-driven workflow engine** (7 production workflows) with one transactional applier and **optimistic-concurrency PostgreSQL writes: new order workflows ship as configuration, not code releases**.
- Built the **money paths** (estimates in exact decimal arithmetic, phased payments, e-signatures, hand-off to 1C accounting), guarded by 13 scheduled reconciliation jobs, protecting **1B+ RUB in monthly contractor payouts**.
- Shipped an **LLM debugging agent** into the team's Mattermost that triages bug reports by querying a read-only Postgres replica, logs, YouTrack, and GitLab, **cutting median bug triage from ~30 minutes to under 5**.

One Technologies (Remote, Kazakhstan)

Software integrator building banking and marketing platforms for Kazakhstan's banks.

Senior Backend Engineer (Jan 2022 – Mar 2023)

- Delivered ForteBank's marketing automation platform: **Go microservices** (gRPC, Kafka, Redis) behind HCL Unica running SMS, push, and voice campaigns for **1M+ customer interactions a day**.
- Cut typical cross-database campaign queries from **~2s to 800ms** across PostgreSQL, Oracle, and Greenplum.
- Designed the audience-segmentation service assembling overnight campaign target lists across three databases, run as **Temporal workflows** on Terraform-provisioned AWS (DynamoDB, Kubernetes).
- **Mentored two junior engineers** on the delivery team through code review and pairing.

Backend Engineer (Feb 2020 – Jan 2022)

- Built **REST integrations in Go and Python** between the marketing platform and core banking APIs.
- Automated audience data-cleansing pipelines in Python and PL/SQL across PostgreSQL and Oracle.
- Set up **Grafana** dashboards and alerting for nightly campaign jobs.

EDUCATION

M.A. International Public Policy, University of Tsukuba, Japan (2021 – 2023)

B.Sc. Computer Science, Peoples' Friendship University (2017 – 2021)

Languages: English (C1), German (B1), Russian (native), Japanese (A2)