Matvey Sizov

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Backend engineer with 4+ years building production systems | vehicle telemetry, service mesh infrastructure, low-latency services and secure APIs | >70K RPS, p99 <50 ms

PROFESSIONAL PROFILE

Backend Software Engineer focused on distributed systems, production infrastructure, and complex backend logic. I have 4+ years of commercial experience across electric-vehicle telemetry, service mesh, retail pricing, crypto payments, utility billing, and public digital services. I currently write mostly Go, have Java backend experience, and actively use Python in personal projects. I own backend work end to end: clarify ambiguous requirements, choose architecture through trade-offs, implement core services, add tests/observability/security, and ship through CI/CD.

PROFESSIONAL EXPERIENCE

ATOM | Senior Software Engineer (Remote, Feb 2025 - Present, 1 yr 3 mos)

ATOM develops an electric-vehicle platform. In the communications and telemetry team, I build production backend services that keep vehicles securely connected to the cloud, integrate external clients, and support low-latency MQTT, gRPC, and API flows.

- Independently drove requirements discovery for ambiguous and partially unrealistic low-latency vehicle-to-cloud communication: aligned with analysts, architects, and integration teams, identified feasible trade-offs, and brought the MVP scope to a state that could be documented in Confluence and used for development.
- Influenced the final architecture by simplifying an over-split microservice concept into a cleaner broker-centered design.
- Designed and co-developed an mTLS-secured MQTT broker based on Mochi MQTT, with Redis-backed session/state recovery for persistent vehicle-to-cloud communication and restart-safe operation.
- Built a high-load backend service that currently handles 70K+ requests per second with p99 latency below 50 ms and is designed to scale beyond current load.
- Built production observability from scratch: metrics, logs, traces, dashboards, alerts, latency/throughput monitoring.
- After the team lost dedicated DevOps support, independently took over CI/CD and deployment setup: build pipelines, manifests/charts, and delivery automation.
- Hardened trusted connectivity with certificate-based mTLS client authentication and topic-level authorization.

Stack: Go, MQTT, Mochi MQTT, Redis, PostgreSQL, Apache Kafka, gRPC, REST API, HTTP/HTTPS, TLS/SSL, mTLS, Prometheus, Grafana, Loki, Sentry, Docker, Helm, Kubernetes, CI/CD, Build pipelines

Lukyanov Tech | Part-Time Mentor / Mock Interviewer (Remote, May 2024 - Present, 2 yrs)

Part-time mentorship project for backend engineers preparing for technical interviews. I run practical preparation tracks and mock interviews focused on backend fundamentals, system design, technical communication, and structured feedback.

- Run backend mock interviews and mentor candidates on system design, backend fundamentals, technical communication, and answer structure.
- Turn interview feedback into concrete practice plans and improve preparation materials and processes so candidates can close weak signals faster.

Stack: Mentoring, Mock interviews, System design, Technical communication

Sber Tech | Software Engineer (Moscow, Russia, Jan 2024 - Feb 2025, 1 yr 1 mo)

Sber Tech develops Platform V, a large enterprise platform. In the Service Mesh & Platform Infrastructure team, I worked on a heavily customized Istio fork and adjacent Kubernetes components for workload control, policy enforcement, and platform integration.

- Restored the automated test suite in a heavily customized Istio fork, returned unit tests to daily development, and raised coverage to 80%.
- Designed and built a Go integration-testing framework that provisioned isolated Kubernetes environments, ran suites in parallel, and generated Allure reports in CI.
- Repaired CI/CD pipelines and moved defect detection earlier in the development cycle for infrastructure changes.
- Expanded integration tests to ~95% of critical functionality, moving defect detection before release instead of relying on later manual checks.
- Mentored ~10 School 21 interns on the framework and automation process, turning manual QA scenarios into scalable automated tests.
- Designed and implemented a custom Kubernetes resource for managing Istio control-plane/data-plane relationships; the solution was later presented internally as a target platform approach.

Stack: Go, Kubernetes, Istio, Service Mesh, gRPC, REST API, HTTP, PostgreSQL, CI/CD, Build pipelines, GitLab, Allure

Magnus Tech | Software Engineer (Remote, Mar 2023 - Jan 2024, 10 mos)

Magnus Tech is a custom software development company. I worked on a pricing-control platform for the Bristol retail chain that unified store data, employee actions, ML pricing recommendations, and photo confirmations into one workflow for operations teams.

- Designed and developed Go backend services from scratch, connecting store data, product catalog data, ML recommendations, and employee actions into a unified pricing-control flow.

- Built REST APIs for admin and internal tools used to review prices, apply manual overrides, compare stores, inspect photo evidence, and coordinate corrective actions.
- Integrated web, email, SMS, and mobile notification flows and kept API contracts stable for frontend and mobile teams.
- Covered critical pricing-control flows with backend automated tests around price updates, manual overrides, and data-processing paths.
- Added Prometheus metrics and observability for critical flows and participated in the production launch after active development.

Stack: Go, PostgreSQL, Redis, Apache Kafka, MinIO, REST API, gRPC, Prometheus, CI/CD, Clean Architecture

Exnode | Backend Engineer (Moscow, Russia, Jun 2022 - Mar 2023, 9 mos)

Exnode develops crypto exchange, B2B payment, and P2P trading products. I worked as part of a larger backend team on transaction flows where payments, exchange operations, and reporting had to stay consistent and fast under real business load.

- Split a large monolithic backend into focused services and migrated part of internal communication from REST to gRPC, reducing latency and clarifying service boundaries.
- Optimized payment and reporting queries using EXPLAIN ANALYZE, cutting several heavy PostgreSQL queries from 10-30 seconds to near real time.
- Implemented a link-based payment service: created API flows that generated and stored payment links, integrated with the frontend payment form, and supported crypto/card payment scenarios.
- Built core P2P exchange capabilities, including exchange-rate logic, service integrations, email notifications, and Telegram alerts.
- Investigated and contained a critical currency-conversion incident, rolled back affected transactions, and then strengthened validation, observability, and release discipline to reduce recurrence risk.

Stack: Go, PostgreSQL, Redis, RabbitMQ, REST API, HTTP, gRPC, Grafana, Telegram Bot API

Kaluga Power Supply Company | Backend Engineer (Go) (Remote, Dec 2021 - Jun 2022, 6 mos)

Customer portal and internal administrative system for personal accounts, utility billing, payments, and property-management operations.

- Under a team lead's technical guidance, independently developed the Go backend codebase for a customer portal and administrative system with integrations to 1C, payments, dashboards, and web/mobile clients.
- Rewrote a key PHP service in Go, preserving critical 1C integration and payment-processing behavior while moving it to a more maintainable backend.
- Delivered account, billing, payment, dashboard, and operational views for customers and property-management workflows.

Stack: Go, PHP, PostgreSQL, 1C integrations, Payments, Dashboards

Center for Regional Management of Lipetsk Oblast (CUR) | Java Developer (Lipetsk, Russia, Aug 2021 - Dec 2021, 4 mos)

Public-sector digital services, including self-employment registration workflows and emergency-call analytics with map-based views and generated incident details.

- Contributed to Java backend services for public-sector products, including self-employment registration and emergency-call tracking/analytics.
- Implemented SQL-backed business logic for public-sector workflows and operational reporting.

Stack: Java, SQL, Backend

EDUCATION

Voronezh State Technical University | B.S. in Intelligent Automated Systems (part-time) (2025 - Expected graduation: 2030)

Voronezh State Technical University | Vocational diploma in Information Technology and Programming (2021 - 2025)

TECHNICAL SKILLS

Languages: Go (Golang), Java (6 months backend), Python (personal projects), SQL

APIs & Messaging: gRPC, REST API, HTTP/HTTPS, MQTT, Apache Kafka, RabbitMQ, NATS

Data & Storage: PostgreSQL, Redis, MinIO, ClickHouse, MongoDB

Platform & Delivery: Docker, Kubernetes, Helm, Istio, Service Mesh, Infrastructure as Code, Ansible, GitLab, CI/CD, Build pipelines, Linux, Git

Security & Identity: mTLS, TLS/SSL, Certificate-based authentication, Identity management, Keycloak, Active Directory

Observability & Quality: Prometheus, Grafana, Loki, Sentry, Allure, Unit/integration testing

Core areas: Distributed systems, Backend architecture, Clean Architecture, High-load and low-latency services, Service Mesh, Testing infrastructure, Observability, Service reliability, Production delivery, Fast technology ramp-up, AI-assisted development, Mentoring

Spoken languages: Russian (Native), English (B2 / Working proficiency)