

Nikolai Malchikov

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## SUMMARY

Software Engineer with 7+ years of experience building scalable backend systems and distributed architectures. Strong focus on Golang for microservices, background processing, and workflow orchestration. Experienced in designing reliable, event-driven systems using Kafka, Redis Streams, and PostgreSQL. Proven track record in improving system performance, automating workflows, and delivering production-ready services with high reliability. Comfortable working cross-functionally, contributing to system architecture, and taking ownership of services from design to production. Actively using AI tools to improve development workflows and productivity.

## SKILLS

Languages: Go (primary), PHP, SQL

Architecture: Microservices, Distributed Systems, Event-driven Architecture, CQRS, Outbox Pattern

Messaging & Streaming: Kafka, Redis Streams (consumer groups, fan-out, partitioning)

Workflow Orchestration: Temporal

APIs: gRPC, REST, GraphQL

Databases: PostgreSQL (including Aurora), MongoDB, Redis

Infrastructure: Docker, GitLab CI/CD, Linux, containerized deployment patterns, basic AWS/GCP familiarity

Practices: Clean Architecture, DDD, Idempotency, Fault-tolerant design, High testability focus

Tools: Claude, GoLand, PHPStorm, GitHub Copilot, ChatGPT, Cursor

## WORK EXPERIENCE

### Backend Engineer

03/2022 – Present – 3 years

**MyAutoData – B2B platform for automotive data management (50K+ active users, 100K+ API requests/day).**

- Designed and developed backend services using Golang for payment workflows, background processing, and internal APIs
- Built a payment orchestration service using Temporal, Kafka, and Outbox pattern, ensuring reliable and idempotent multi-step processing
- Integrated Stripe billing system handling 10K+ monthly transactions with retry strategies and reconciliation flows
- Decomposed monolith into 5+ microservices, improving system scalability and deployment flexibility
- Implemented caching strategies with Redis, reducing API latency by 40%
- Improved system reliability through idempotent processing and fault-tolerant design patterns
- Collaborated with product and engineering teams to deliver features end-to-end

**Tech:** Golang, PostgreSQL, Redis, Kafka, Temporal, Docker, GitLab CI/CD

### Backend Engineer

02/2021 – 02/2022 – 1 years

**Apartment Sharing – B2B platform for property rental and cleaning operations.**

- Developed internal services and background workers in Golang
- Implemented event-driven workflows using Redis Streams and Outbox pattern
- Designed service boundaries and prepared migration from monolith to Go-based microservices
- Built and maintained REST and GraphQL APIs
- Set up Docker-based development environments and CI/CD pipelines

**Tech:** Golang, PostgreSQL, Redis Streams, Docker, GraphQL

### Backend Engineer

05/2018 – 01/2021 – 2 years

**Runexis – Telecommunications & enterprise automation.**

- Developed and maintained high-load APIs (100K+ requests/day)
- Optimized PostgreSQL queries, reducing latency by 35%
- Built containerized services and improved deployment consistency

**Tech:** PHP, PostgreSQL/MySQL, Docker

EDUCATION Moscow State Open University Bachelor of Engineering in Computer Science – 2020