Nikolai Malchikov

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SUMMARY

Backend Engineer with 7+ years of experience in distributed systems, event-driven architecture, and B2B platform development. Using Go for service components, background workers, and data pipelines. Experienced with PostgreSQL, Redis Streams, Docker, microservices, and payment workflows. Focused on reliability, consistency, system boundaries, and clear architecture.

SKILLS

Languages: Go (primary), PHP, SQL
Architecture: Microservices, Distributed Systems, Event-driven workflows, Outbox pattern, CQRS Messaging: Redis Streams, Kafka (hands-on patterns: fan-out, consumer groups, 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: DDD, Clean Architecture, Idempotent workflows, Fault-tolerant service design
Tools: GoLand, PHPStorm, GitHub Copilot, ChatGPT, Cursor

WORK EXPERIENCE

Lead Backend Engineer   **03/2022 – Present – 3 years**
MyAutoData – B2B platform for automotive data management (50K+ active users, 100K+ API requests/day).

- Led a small backend team (3 engineers): planned sprints, performed code reviews, and defined architectural decisions.
- Maintained the core SaaS backend and internal APIs.
- Integrated **Stripe** billing flows, processing 10K+ monthly transactions (idempotency, reconciliation, retries).
- Designed and implemented a payment orchestration service in Go using Temporal workflows, Kafka and the Outbox pattern, ensuring reliable, idempotent, multi-step payment processing.
- Designed and launched 5+ microservices to reduce monolith dependency and improve scalability by 30%.
- Implemented Redis caching, reducing API latency by 40%.
- **Used Go to build background workers / data processing scripts for internal services**, improving processing throughput and isolation of side-effects.

Tech: Go, PHP 8.1, Laravel, PostgreSQL, Redis, Docker, GitLab CI/CD.

Backend Engineer   **02/2021 – 02/2022 – 1 years**
Apart Sharing – B2B platform for property rental and cleaning operations.

- Developing service-oriented architecture: using **Go** to build internal services and background workers.
- Implemented **event-driven workflows** with **Redis Streams + Outbox** for guaranteed delivery and consistency.
- Prepared migration of core business modules into isolated **Go-based** services.
- Built and maintained REST/GraphQL APIs, Docker-based development environments, and CI/CD pipelines.

Tech: Go, PHP 8.1, Laravel 10, Redis (Streams), PostgreSQL, Docker, GitLab CI/CD, GraphQL.

Backend Engineer   **05/2018 – 01/2021 – 2 years**
Runexis – Telecommunications & enterprise automation.

- Developed and maintained APIs processing **100K+ requests/day**.
- Optimized PostgreSQL queries, reducing query latency by **35%**.
- Built containerized microservices using Docker for reproducible deployments.

Tech: PHP 7+, Laravel, Symfony, Docker, MySQL.

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