

Kushch Artem

Senior / Lead Golang Backend Engineer



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Summary

Senior backend engineer with 5+ years of experience building and scaling high-load distributed systems. Strong expertise in Golang, microservices, performance optimization, and observability. Experienced in leading teams, mentoring engineers, and improving reliability of production systems under heavy load (up to 10M RPS).

Experience

VK, Russia – Leading Backend Developer

Aug 2024 – Present

- Built and maintained high-load infrastructure and microservices handling 1M–10M RPS
- Improved performance by 2–5x and reduced resource consumption by 20–30%
- Optimized p95/p99 latency, CPU, memory, GC, and critical code paths
- Implemented resilience mechanisms: adaptive RPS limiting, goroutine limiting, timeout/context control
- Developed reusable Go packages (caching, singleflightx, preload optimizations)
- Built a code generator for standardized metrics and improved observability
- Enhanced monitoring, alerting, and operational processes
- Led a team of 4 backend engineers
- Conducted 100+ technical interviews
- Mentored new developers and performed high-impact code reviews
- Participated in incident response, postmortems, and system improvements
- Spoke at internal and external meetups and conferences, sharing expertise on Golang and high-load systems ([One2Trip](#))

Skills

Languages:

Golang, Python, PHP, Rust, C++

Databases:

PostgreSQL, Redis, MongoDB, Etc

Messaging:

Kafka, RabbitMQ

Infrastructure:

Kubernetes, OneCloud, Docker, Linux, Nginx, GitLab CI/CD

Observability:

Grafana, Prometheus, Statshouse, pprof

Backend:

gRPC, REST, Microservices, Distributed Systems, Highload Systems

Education

MISIS — MSc in Data Science, 2024

Focused on machine learning, data analysis, and large-scale data processing

MISIS — BSc in Applied Mathematics, 2022

Strong foundation in mathematics, probability theory, and statistics

Additional

Certificates:

TensorFlow Developer, Nvidia, Cisco, Coursera, Stepik

Extra exp.:

Proficient in Machine Learning, Computer Vision, and data processing systems. Solid foundation in mathematics, probability, and statistics.

Previous experience

P Ltd, Cyprus — Backend Developer

Feb 2024 – Aug 2024

- Decomposed monolith into microservices
- Designed and implemented distributed platform architecture
- Migrated legacy Java services to Golang
- Designed APIs: 80% gRPC, 20% REST
- Built and maintained CI/CD pipelines
- Introduced coding standards and engineering conventions
- Developed custom linter for golangci-lint
- Designed distributed VPN network for direct service communication

X5 Digital, Russia — Middle Backend Developer

Sep 2023 – Feb 2024

- Developed Golang microservices for core platform (Perekrestok)
- Improved request processing performance by 3–5x
- Introduced architectural improvements and design patterns
- Worked with monitoring, profiling (pprof), and SQL optimization

Polymatica, Russia — Backend Developer

Aug 2022 – Sep 2023

- Built Go and Python microservices for analytics platform
- Developed integrations for enterprise customers
- Implemented data migration and transformation pipelines
- Built reporting tools (Excel, PDF, HTML)
- Worked with PostgreSQL, MongoDB, Redis, RabbitMQ

ISGNeuro, Russia — Software Engineer

Jul 2021 – Aug 2022

- Developed desktop applications and data processing systems (Python, Qt)
- Worked on analytics platform and large-scale data processing
- Applied multiprocessing, Cython, and GPU acceleration (CUDA)
- Implemented ML models for classification, regression, and segmentation

FGANU CITIS, Russia — Computer Vision Engineer

Jun 2020 – Jul 2021

- Developed computer vision and deep learning systems
- Built desktop applications and data pipelines
- Worked on identity recognition and tracking systems
- Conducted research on deepfake detection

Languages

Russian — Native

English — Upper-Intermediate (B2)