

# Georgii Morochev

Senior Golang Developer | Senior Software Engineer

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## Summary

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Senior Golang Developer with 8+ years building high-performance, production-grade distributed systems and blockchain infrastructure. Specializes in microservices architecture, gRPC/REST API design, cryptography and security, and system performance optimization. Track record of measurable results, including a 30% platform performance improvement, systems scaled to support 200k+ concurrent users, and production deployment of mission-critical infrastructure.

## Core competencies

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|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Development</b>    | Golang, gRPC, REST API Design, Concurrent Programming                                                                                                     |
| <b>Architecture</b>   | Microservices Architecture, System Design, Distributed Systems, Distributed Consensus, Blockchain/Web3 Infrastructure, Cryptography & Security, OAuth/SSO |
| <b>Data</b>           | PostgreSQL, MySQL, Redis, MongoDB, Clickhouse, Kafka, RabbitMQ, Apache Ignite, Memcached, Data Pipeline Architecture, Real-Time Data Processing           |
| <b>Infrastructure</b> | AWS, Docker, Kubernetes, GitHub Actions, GitLab CI/CD, Linux                                                                                              |

## Professional experience

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### ALIEN.ORG — Senior Golang Developer

May 2025 – Jun 2026

- Built core infrastructure for an L1 blockchain network from scratch using Golang and gRPC, scaling the network to support 200k+ concurrent unique users in production
- Designed and implemented cryptographic security protocols and hardening measures; worked with TEE SEV-SNP to deliver secure enclaved services
- Developed sharding chain architecture enabling horizontal scaling, as part of the core development team
- Implemented and deployed a secure biometry pipeline for identity verification in production

### KADAM — Senior Golang Developer

Aug 2023 – May 2025

- Architected and developed a Demand-Side Platform for programmatic advertising, including a real-time bidding engine and auction processing system
- Optimized bidding algorithms and system architecture for high-throughput scenarios, achieving a 30% improvement in platform performance
- Built and launched a scalable system handling millions of real-time bidding requests in production

### ELETCY LAB — Golang Developer

Jan 2023 – Jun 2023

- Developed a crypto token swap router for decentralized exchanges, including a routing engine for optimal exchange paths through Uniswap V3 liquidity pools
- Implemented algorithms for slippage optimization and transaction cost minimization, demonstrating scalability for high-frequency trading scenarios
- Moved from monolithic architecture to microservices architecture

## **GLOBALEDGE — Golang Developer**

Sep 2021 – Mar 2023

- Developed and optimized VPN infrastructure and data platform services for secure connectivity and data protection
- Introduced the WireGuard protocol, reducing latency and improving connection stability
- Increased system reliability and stability while expanding platform functionality

## **ITKEY — Golang Developer**

Jun 2020 – Aug 2021

- Designed and implemented a proof-of-concept P2P Docker registry based on the BitTorrent protocol as part of an R&D team researching distributed infrastructure
- Achieved a 20% increase in Docker image download speed through a distributed peer-to-peer architecture

## **AGROCHIM — Golang Developer**

Jun 2018 – Aug 2021

- Architected and developed a full-stack system for real-time monitoring of production processes, including hardware integration for data collection
- Developed software for electronic digital signature handling and compliance verification
- Designed and deployed a system that became the company's core product, supporting thousands of daily operations in production

## **Education**

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- **Master of Computer Applications (MCA), Computer Science** — National Research Nuclear University MEPhI (Moscow Engineering Physics Institute), 2019
- **Bachelor of Science (BS), Nuclear Physics** — National Research Nuclear University MEPhI (Moscow Engineering Physics Institute), 2017