

Alexander Babenko

Senior Software Developer

SUMMARY

- 7+ years expertise in Go, specializing in distributed systems, microservices, and legacy system modernization with zero downtime.
- Contributor to open-source projects (KrakenD API Gateway), with published works on distributed teams and mesh networking, demonstrating commitment to software architecture excellence and continuous learning.

TECHNICAL SKILLS

Main Technical Skills	Go (7 yr.), Legacy Application (10 yr.)
Programming Languages	Go (7 yr.)
Databases & Management Systems / ORM	MongoDB (5 yr.), MySQL (5 yr.), PostgreSQL (5 yr.)
Deployment, CI/CD & Administration	CI/CD (5 yr.), GitLab CI (5 yr.)
Virtualization, Containers and Orchestration	Docker (5 yr.)
Mail / Network Protocols / Data transfer	JWT (5 yr.)
SDK / API and Integrations	JWT (5 yr.), OAuth (5 yr.), OpenAPI (5 yr.), Swagger (5 yr.)
Message/Queue/Task Brokers	Kafka (2 yr.)
Methodologies, Paradigms and Patterns	microservices (7 yr.)
Scripting and Command Line Interfaces	Perl

WORK EXPERIENCE

Lead Software Engineer / Tech Lead - Unim (Digital Pathology Laboratory System Modernization)

Duration: June 2020 – December 2023

Summary:

- Digital pathology laboratory specializing in cancer diagnostics digitization



- The project involved stabilizing and modernizing a legacy distributed system critical for laboratory operations and cancer diagnostics

Responsibilities:

- Inherited and stabilized a legacy system with zero documentation composed of multiple distributed monoliths in JavaScript, Python, and Go.
- Maintained continuous laboratory operations during infrastructure rebuilding.
- Analyzed and refactored existing subsystems while ensuring service availability.
- Designed and implemented new microservices to modernize the architecture.
- Established CI/CD pipelines using GitLab, implemented smoke testing with Postman, and created OpenAPI specifications.
- Introduced code generation tooling (oapicodegen) to improve development velocity.

Technologies: JavaScript, Python, Go, Microservices, GitLab CI, Postman, OpenAPI, oapicodegen

Lead Software Engineer - Spora (Nefrosovnet) (Nephrology Platform Development)

Duration: February 2018 – June 2020

Summary: Development of a nephrology platform aimed at supporting kidney disease management and related healthcare services.

Responsibilities:

- Participated in architecture design of the platform.
- Led a development team of up to 5 engineers.
- Handled hiring and onboarding processes.

Software Engineer - One Million Likes (Go Microservices Development and Maintenance)

Duration: July 2016 – February 2018

Summary: Remote development and maintenance of Go-based microservices supporting the company's platform.

Technologies: Go, NSQ, Docker, PostgreSQL, Redis

Software Engineer - REG.RU (Messaging and Authentication Systems Development)

Duration: February 2016 – May 2017

Summary: Development of messaging systems, user authentication services, API gateway, and CRUD microservices for a domain registrar and hosting company.

Responsibilities:

- Developed a dynamically configurable messaging system supporting SMS, SMTP, Viber, Telegram, Slack, MQTT using Go.
- Built user authentication service with JWT, LDAP, OAuth backends.
- Developed a custom API gateway using KrakenD as a library with dynamic configuration and JWT authorization.
- Developed and maintained CRUD microservices using Go, MongoDB, CockroachDB, MQTT.
- Containerized projects with Docker and wrote Helm charts for Kubernetes deployment.
- Set up GitLab CI for automated testing and Docker image builds.
- Applied code generation tools (go-swagger, oapi-codegen) and design patterns to improve codebase flexibility.



- Maintained legacy code in Perl, Catalyst, MySQL.
- Wrote technical documentation and API specifications.
- Developed internal link shortening service.

Technologies: Go, MongoDB, CockroachDB, MQTT, JWT, LDAP, OAuth, KrakenD, Docker, Kubernetes, Helm, GitLab CI, Perl, Catalyst, MySQL, go-swagger, oapi-codegen

Software Developer - Setup.ru (Website Builder Platform and Related Services)

Duration: May 2012 – February 2017

Summary: Development and maintenance of a website builder platform and associated services including legacy code support and integration with third-party services.

Responsibilities:

- Maintained legacy code on custom framework and Mojolicious-based service using Perl and MySQL.
- Wrote technical specifications and decomposed tasks.
- Developed new functionality in Perl and Go.
- Worked with accounting for report generation, interaction with counterparties, and billing support.
- Integrated with third-party services such as payment systems, social networks, and OAuth.
- Developed and implemented an email newsletter system.
- Reorganized development processes including git flow and daily deployment.
- Supported high-load service for static data using Go, Aerospike, and Cassandra.

Technologies: Perl, Go, MySQL, Aerospike, Cassandra, Mojolicious, OAuth

CERTIFICATION

- **Software Architecture and Microservices**
OTUS Online Education
2020 – 2021

