




Alexander Babenko

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Summary

Backend engineer with 7+ years in Go, focused on distributed systems and legacy modernization. Experienced in joining complex projects mid-flight — stabilizing production, establishing development processes, and incrementally improving architecture. Background in team leadership (up to 5 engineers) and cross-domain work including digital pathology and nephrology platforms. Remote from Thailand.

Experience

Lead Software Engineer / Tech Lead — Unim

June 2020 – December 2023 | Remote

Digital pathology laboratory specializing in cancer diagnostics digitization. Joined during critical transition after entire previous engineering team departed.

Crisis Management: Inherited legacy system with zero documentation — multiple distributed monoliths in JavaScript, Python, Go with extremely low stability. Maintained continuous laboratory operations while rebuilding infrastructure.

Technical Contributions:

- Analyzed and refactored existing subsystems while maintaining service availability
- Designed and implemented new microservices for architecture modernization
- Established CI/CD pipelines on GitLab, smoke testing with Postman, OpenAPI specifications
- Introduced code generation tooling (oapicodegen) for development velocity

Key Achievement: Transformed fragile, undocumented system into maintainable architecture without disrupting critical diagnostic workflows.

Lead Software Engineer — Spora (Nefrosovet)

February 2018 – June 2020 | Remote

Nephrology platform development. Participated in architecture design, led development team (up to 5 engineers), handled hiring and onboarding.

- Developed dynamically configurable messaging system supporting SMS, SMTP, Viber, Telegram, Slack, MQTT (Go)
 - Built user authentication service with JWT, LDAP, OAuth backends (Go)
 - Built custom API gateway using KrakenD as a library: dynamic configuration via API, routing rules stored in MongoDB, automatic reload on configuration changes, JWT authorization
 - Developed and maintained CRUD microservices (Go, MongoDB, CockroachDB, MQTT)
 - Containerized all projects with Docker. Wrote Helm charts for Kubernetes deployment
 - Set up GitLab CI for automated testing (Postman) and Docker image builds
 - Accelerated development using code generation tools (go-swagger, oapi-codegen)
 - Applied Repository and DI patterns to improve codebase flexibility
 - Wrote technical documentation and API specifications
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Software Engineer — One Million Likes

July 2016 – February 2018 | Contract, Remote

Remote development and maintenance of Go microservices.

Tech stack: Go, NSQ, Docker, PostgreSQL, Redis

Software Engineer — REG.RU

February 2016 – May 2017 | Remote

Domain registrar and hosting company.

Responsibilities:

- Maintained legacy code (Perl, Catalyst, MySQL)
- Wrote technical specifications and task decomposition
- Developed new functionality

Achievement:

- Developed internal link shortening service (Go)

Software Developer — Setup.ru

May 2012 – February 2017 | Remote

Website builder platform.

Responsibilities:

- Maintained legacy code on custom framework and Mojolicious-based service (Perl, MySQL)
- Wrote technical specifications and task decomposition
- Developed new functionality (Perl, Go)
- Worked with accounting: report generation, interaction with counterparties, billing support

Achievements:

- Integration with third-party services (payment systems, social networks, OAuth)
- Developed and implemented email newsletter system
- Reorganized development processes (git flow, daily deployment)
- Learned Go, supported high-load service for static data (Go, Aerospike, Cassandra)

Skills

Skill	Level	Details
Go	Expert	Primary language, 7+ years. Microservices, distributed systems, API development
API Design	Expert	OpenAPI, go-swagger, oapicodegen
Databases	Advanced	MongoDB, PostgreSQL, CockroachDB, Redis, Aerospike, Cassandra
DevOps	Advanced	Docker, Kubernetes, Helm, GitLab CI
Messaging	Advanced	Kafka, NSQ, MQTT
Legacy Refactoring	Expert	Incremental modernization without downtime

Projects

Psina

Lightweight, embeddable authentication service for Go microservices. Dual deployment (library or standalone), Connect-RPC, stateless JWT with JWKS, refresh token rotation (RFC 6819). Gateway integrations: Traefik ForwardAuth, KrakenD JWKS.

 github.com/foxcool/psina

Greedy Eye

Personal investment intelligence platform — portfolio analytics across crypto, stocks, and bonds. Go, gRPC, PostgreSQL, Connect-RPC, Docker. Integrations with Binance and CoinGecko APIs.

 github.com/foxcool/greedy-eye

KrakenD API Gateway

Open source contributor to high-performance API Gateway with JWT authorization support.

 github.com/krakend

Courses

Software Architecture and Microservices

OTUS Online Education | 2020 – 2021

Publications

- [Corporate Culture for Distributed Teams and Beyond](#) (published in Russian)
 - [Mesh Router Made Simple](#) (published in Russian)
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Languages

- **Russian** — Native
- **English** — Professional Working