Dmitry Kutakov

Lead/Senior Software Engineer

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Tech skills

Go, Python, Typescript, PostgreSQL, NoSQL, Kafka, Nats, Linux, GCP, AWS, Docker, Kubernetes, Helm, Terraform, Pulumi, Prometheus, Grafana, OpenTelemetry, OpenAPI, gRPC, distributed systems, SRE, SLIs/SLOs, on-call, Haskell, Factorio

Lead/Senior Backend and Platform Engineer with 13+ years building high-throughput, reliable distributed systems. First hire at GlassFlow, scaled a real-time data platform from 2k to 6M events/sec and stood up production-grade infra (GCP, k8s, IaC, observability). At Snap, delivered OpenAPI-first services with 99.95% uptime SLO at sub-250ms latency. Known for greenfield builds, pragmatic engineering practices, and leading teams through ambiguity.

Open source contribution:

#8 contributor on **Gin** is a high-performance HTTP web framework written in Go - my commits

Lead Backend Engineer - [Startup] GlassFlow

Berlin, Germany, Oct 2023 - May 2025 (1 year 8 months)

Tech stack: Go, Python, k8s, k8s controllers, GCP, PostgreSQL, Nats, Terraform (Pulumi), Helm, Github Actions

GlassFlow - was a Python-centric real-time data processing platform as a service.

The idea was to replace the popular stack Flink + Kafka. We focused on building a light platform which is easy to use and set up as well as to install into a client's infrastructure.

Data Engineers write Python functions and we manage the infra. Built-in monitoring and logs to see the progress of pipelines and debug the transformations per event. Multi-function transformations. Source and sink connectors for many databases and datasources.

- First engineering hire on pre-seed round who designed and built the backend and cloud platform from scratch ***[Go, Python, k8s, GCP, NATS, PostgreSQL]***.
- Scaled real-time data processing from MVP (2k events/sec) to production handling 6M events/sec, while enabling multi-function transformations.
- Delivered a public OpenAPI-first REST API ***[OpenAPI v3 specification first]*** consumed by the web app and CLI; prepared BYOC (bring your own cloud) deployment model for customers.
- Established CI/CD with tag-based automated releases and full IaC coverage ***[Pulumi, Helm, GitHub Actions, Cloudflare]*** with security best practices.
- Implemented observability and on-call practices ***[Prometheus, Grafana, alerting]*** to support 24/7 operations.
- Hired and led the backend team post-seed; transitioned ownership and established standards for code quality and reliability.
- Planned on a monthly basis and sync of current progress twice per week.
- Built the solution with different ways of integration, like direct API, CDC (change data capture) from DBs, many other NoSQL databases, S3 integration, etc.

Senior Software Engineer - Snap Inc (https://www.snapchat.com)

Berlin, Germany, Feb 2020 - Feb 2023 (3 years)

Tech stack: Go, Python, Node.js, k8s, GCP, Kafka, PostgreSQL, BigTable, Helm, Terraform

I was part of the team which was responsible for making style-based recommendations for garments web stores. If a user searches for an item and it is out of stock, our engine returns suggestions of other items which look similar to the original one.

My role was to set up ML training pipelines (evaluate and deploy an engine, and set up pipeline), build backend and maintain infra in a separate cloud project.

- Led the technical implementation of backend services, infrastructure, and the automation of ML pipelines in an independent cross-functional team. ***[Go, microservices, k8s, Argo workflows]***
- Built a solution to deliver recommendations from Data Sciences to end users with the REST API (**openapi specification first**) service.
- Delivered API service (in average ~100 rps) to handle **99.95% uptime SLO** (successful requests (2xx) within 250ms) even during Black Friday's highest peak.
- Mentored Data Sciences to use the unit tests on ML Python code, which increased the quality of the whole codebase.
- Made the builds reproducible and consistent, particularly in the context of versions of Go, linters, tools of code generation, etc. and regardless of which machine builds started. ***[Makefile, Docker, Go, Unix, CI - GCP Cloud Builds, OpenTelemetry]***
- Introduced and integrated Kafka into the process of collecting metrics, it helped during the Black Friday season to persist metrics events. ***[Go, microservices architecture, Kafka, Docker]***
- Led weekly knowledge-sharing sessions about Go, which helped to share the understanding of the new language across many teams and to start migrating from NodeJS.

Senior Software Engineer - N26 (https://n26.com)

Berlin, Germany, Jul 2019 - Jan 2020 (6 months)

Tech stack: microservices, Go, Docker, PostgreSQL

- Worked on internal tools of employee automation.
- Was laid off since our team was closed and N26 didn't use Golang at that moment.

Senior Backend Software Engineer - TrafficStars

Cyprus, Jan 2018 - Dec 2018 (1 year)

Tech stack: microservices, Go, Docker, PostgreSQL

TrafficStars is an advertising exchange platform and a huge traffic network. The platform must respond quickly with correct targeting for every visitor. Highload projects with high RPS and billions of stats and metrics.

- Maintained an advertising exchange platform with a huge traffic network.
- Delivered Web Push notifications and implemented new targeting properties.

Backend Golang Software Engineer

Russia, 2015 - 2017

Tech stack: microservices, Golang, Python, Docker, PostgreSQL, MongoDB, Redis, RabbitMQ

- Rewrote the whole platform from Python to Golang.
- Rewrote services from PHP to Golang.
- Created an internal tool for testing microservices and setup for CI/CD pipelines.
- Splitted the monolith platform to the set of microservices that communicated through RabbitMQ.
- Installed the platform into bare servers and managed databases.

Software Engineer

Russia, 2012 - 2015

Tech stack: .Net, C#

Education

Master's and Bachelor's degree, Computer Science, 2008 – 2014