

# Fedoseev Iakov

## Senior Software Engineer

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### **SUMMARY**

I'm an experienced software engineer specializing in back-end development. My experience spans large enterprises and small start-ups, working in both large and small teams and includes reporting directly to CTOs. I have management experience at the development manager level. I have a good understanding of the product approach to software development. Known for being result oriented, responsible, and an excellent team player, I bring a versatile skill set to any technical team.

*Skills:* Golang, Linux, Python, TypeScript.

### **EXPERIENCE** (Total experience 7y 1m)

#### **Lead Software Engineer, Terralink (January 2024 – Present)**

*Role Summary:*

I am the lead of the product development department and a technical architect in a related team. My responsibilities include creating a clean and scalable architecture, researching new technologies and introducing them into our projects, conducting technical interviews and code reviews. I am involved in drawing up a roadmap for projects and their implementation. Responsible for managing the development team, decomposition of tasks, results of each quarter.

*Notable achievements:*

- 100k+ rps monitoring with Jaeger and Grafana
- Creating a roadmap for the development of a product development team and its implementation
- Creating an architecture for a new project (NDA, about data-lineage and DWH)

*Technologies:* Golang (gorilla/mux, gin), NATS, Kafka, Linux (Ubuntu 22.04, Fedora), Python (Apache Airflow), TypeScript (for React application and revision open-source solutions).

#### **Senior Software Engineer, Terralink (Jul 2023 – December 2023)**

*Role Summary:*

Participated in the full software development cycle: communications with customers, project evaluation and decomposition, development, code refactoring, deployment. Engaged in the development of distributed analytical platforms based on microservice architecture. The work used SCRUM and Agile methodologies. Team communication was carried out using the Azure DevOps and gitlab ecosystems.

*Notable achievements:*

- DataBase sharding
- Implementing distributed tracing with Jaeger (golang microservices)
- Moved development backlog tracking entirely to gitlab (milestones, issues boards, epics, boards)

*Technologies:* Golang (gin, net/http, self-written implementation of rate limiter, goose), Jaeger, Grafana, k8s, Apache Kafka.

### **Senior Software Engineer, STC "Oil & Gas diagnostics" (May 2022 – May 2023)**

#### *Role Summary:*

Developed internal solutions for pipe stresses analysis and defect detection in main pipelines. Microservice architecture. The client side was implemented as a cli utility written in golang. They collect data, validate it and send it to the cloud for subsequent calculations. The data analysis solution was implemented using fastAPI & airflow dags.

#### *Notable achievements:*

- Increased the accuracy of calculating in-pipe stresses using machine learning to solve a classical problem “constraint satisfaction problem”
- PostgreSQL in cluster mode
- DWH in ClickHouse (Partitions, Materialized View)
- Replaced ETL process with ELT which allowed to increase development performance.

*Technologies:* Golang (gin, goose, gorm, pprof, escape analysis, urfave/cli/v2), Python (pandas, numpy, fastAPI), Apache Airflow.

### **Middle golang developer, Freelance (over 4 years)**

#### *Role Summary:*

Engaged in the development of chat bots for telegram and discord platforms. The orders were aimed at creating assistant systems for automating routine tasks. Developed systems for tracking attendance by employees of individual enterprises, systems for cold calling, SMS mailings, online stores. Integrated chat bots with various API systems. Engaged in adaptive layout using technologies React, PWA, TypeScript. Created RESTful API by using Golang (net/http, gorilla/mux), Python (flask, FastAPI) & Rust (Axum).

#### *Notable achievements:*

- Highload (50k+ rps)
- Docker Swarm cluster (4+ nodes)
- Rewrite DDD monoliths with TDD (test coverage is over 90%)
- Build architecture in c4 notation

*Technologies:* Golang (FastHttp, gin), PWA (React+TypeScript), k8s, Docker Swarm, Docker compose, git, GitHub actions.

### **EDUCATION**

**Gubkin Russian State University of Oil and Gas (National Research University), 2021-2025**

### **LINKS**

Telegram: @yashkashustrij

GitHub: <https://github.com/cpt-nemmo>