



Alexey Ermolenko

Senior Software Engineer (Golang, SQL)

About Me Prefer to be actively involved in all stages of software development for highload and big data collection and processing: microservices, SQL and NoSQL database structure design, client-server and embedded software by the client's order. Implementation of the maximum number of functionalities with limited computing resources, support and refactoring of third-party and company's legacy software, introduction of new technologies and approaches. System design and supporting development documentation are included. Participated in presentation events: [Living Sensors](#)

Experience

September 2024 - Now, *Software Engineer, Avtomakon ltd.*

- Actively participated in decomposition of monolithic architecture into service-oriented. Realized data separation into Postgres and work with it via microservices. Automated monitoring of the database state and ensuring consistency of stored data.

October 2022 - September 2024, *Software Engineer, WB Tech ltd.*

- Developed a system for analyzing the financial flows of the customer balance from scratch. ClickHouse cluster was used as the core of the system. Achieved a data consistency index of 99.99. To achieve this result, replaced NATS with Kafka in all services of the department.
- At an early stage I participated in the development of a new merchant balance service.

October 2021 - June 2022, *Software Engineer, DDoS-Guard ltd.*

- Working with highload reverse proxy server: implementation stable functionality, compliance with RFC1945, 2616 and refactoring large codebase.
- Developed a platform to run l4 load balancer.
- Writing technical documentation.

February 2020 - October 2021, *Software Engineer, Rostpay ltd.*

- Developed a client-side solution for delivering targeted advertising, completely replacing previous approaches.
- Customize Chromium browser.

November 2017 - January 2020, *Software Engineer, R&D Center for Neurotechnology, SFedU.*

- Development of electronic devices and software based on technology.
- Development of client programs to control the experiment using.
- Writing support and technical documentation

February 2015 - October 2017, *Software Engineer, Don-Strike ltd.*

- Development of IoT devices and software for the physiology laboratory.
- Writing support and technical documentation.

September 2013 - February 2015, *Junior Software Engineer, FGANU Research Institute Spetsvuzavtomatika.*

- Participation in the development of IoT devices. Replaced Altium Designer instead of EAGLE in circuit board development processes.
- Prototyping electronic circuits.

Contacts

[Telegram](#)

[LinkedIn](#)

[GitHub](#)

[Skype](#)

[Email](#)

+7 (918) 565-36-01

Address

Rostov-on-Don, Russia

Programming Skills

- Golang
 - pgx
 - grpc-gateway
 - fasthttp
 - clickhouse-go
 - kafka-go
 - [Cilium eBPF](#)
- SQL
 - [PostgreSQL](#)
 - ClickHouse
 - Redis
 - MSSQL
- C/C++
 - STL&Boost
 - [POCO Libraries](#)
 - GoogleTest
 - Qt&wxWidgets
 - Win32
 - TI ARM, MSP430
 - Atmel AVR
- Python

Computer Software

- Docker Compose
- Docker
- K8s
- \LaTeX .
- Altium Designer



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Computer Software

- Docker Compose
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- K8s
- \LaTeX .
- Altium Designer

Education

[2011 - 2014, Southern Federal University](#)

Department of Physics, Postgraduate School

[2006 - 2011, Southern Federal University](#)

Department of Physics, Medical Physics, Specialist's degree

[2008 - 2012, Southern Federal University](#)

Department of Economics, Economics, Bachelor's degree

Awards

[2022, DDoS-Guard Ltd.](#)

For creativity and unconventional thinking in problem solving

[2010, Department of Physics, Southern Federal University](#)

Laureate of the 62nd Student Scientific Conference of SFedU

Advanced training, courses

[2018, Otus](#)

C++ Developer

Interests

[Professional](#)

Software design and development, design electronics systems, problem solving

[Personal](#)

Mountain hiking, orienteering