

Viktor Iakovchuk

Software Engineer

✉ viktor@yakovchuk.net  [viktor-iakovchuk-a3a169188](https://github.com/viktor-iakovchuk-a3a169188)  [Viktor-Yakovchuk](https://www.linkedin.com/company/Viktor-Yakovchuk)  yakovchuk.net  +374 55 11 06 34

PROFILE

I am a highly motivated Backend Software Engineer with over 8 years of experience. My expertise lies in designing and building high-load, scalable systems using event-driven architecture, ensuring efficient and reliable performance. While Golang is my primary focus, I am also proficient in C, PHP, Python and JavaScript, allowing me to adapt to a variety of projects.

Passionate about open source, I have contributed to notable projects like LXD, Rclone, and Gitea, always eager to collaborate and share knowledge with the community. With a strong understanding of how systems work under the hood, encompassing system calls, compilers and Linux Kernel, I'm skilled at writing optimized and high-performance backend solutions. Self-organized and constantly learning new technologies, I thrive on tackling complex technical challenges.

TECHNICAL SKILLS

Programming Languages: Golang, PHP, Python, C, JavaScript (Vue.js, D3.js), Java, Bash/Shell scripting

Databases & Messaging Systems: PostgreSQL, Kafka, Redis, MySQL, MariaDB, ClickHouse, MongoDB

Cloud & Containerization: Google Cloud Platform (GCP), Kubernetes, Docker

CI/CD & Automation Tools: Git, GitLab CI/CD, Jenkins, GitHub Actions, Ansible

Monitoring, Web Servers & Networking: Grafana, Prometheus, Sentry, Apache, Nginx, Linux Administration, Networking (DHCP, iptables, nftables)

WORK EXPERIENCE

Software engineer at Wildberries

11/2023 – present

Yerevan, Armenia

Backend engineer in a cross-functional team responsible for pinning user reviews by sellers and Q&A services in one of Eastern Europe's largest e-commerce platform.

- Developed and maintained high-load Go microservices processing up to 150,000 RPS.
- Developed backend services for the Pinned Reviews domain, including a service responsible for keeping pinned short-form video content consistent throughout publication status changes.
- Proposed and implemented an event-driven architecture replacing scheduled database polling in several workflows, eliminating long-running transactions and significantly reducing PostgreSQL load.
- Developed integrations with an internal LLM platform to support AI-generated replies for reviews and customer questions, as well as recommendations suggesting best reviews to pin.
- Designed Redis caching strategies, database migrations, SQL optimizations, indexes, and evolved REST APIs and Kafka event contracts across multiple services.
- Reduced Testcontainers-based integration test execution time by 40%, accelerating local development and CI pipelines while preserving test coverage.
- Implemented service metrics and extended Grafana dashboards to improve monitoring and troubleshooting.
- Coordinated a cross-team release as a feature lead for a customer question tagging project. Mentored backend and QA engineer.

Tech Stack: Go, PostgreSQL, Kafka, Redis, Kubernetes, ClickHouse, gRPC, REST APIs, Prometheus, Grafana, GitLab CI/CD.

Software engineer at Oracle

03/2020 – 08/2022

Saint Petersburg, Russia

Oracle is a worldwide leader in enterprise software and cloud solutions. At Oracle, I contributed to various projects within the Oracle Linux ecosystem, including GlusterFS, Pacemaker, Corosync, AWX (Oracle Linux Automation Manager) and Spacewalk (Oracle Linux Manager).

- Developed and maintained test suites for automation testing of userspace applications.
- Lay the groundwork for AWX testing, ensuring smooth integration with Oracle Linux.
- Ported and adopted testing instruments from different versions of Oracle Linux Distributions.

Stack: Python, Shell script, Oracle Cloud, Oracle Linux, Jenkins, Ansible, Perl, netstat, tcpdump, perf, crash

Software engineer at Avansoft

10/2018 – 02/2020

Saint Petersburg, Russia

Avansoft is a software development company focused on building complex IT solutions. I worked on two key projects: PI Expert Online (power conversion) and Epiphan Video (video capture and streaming).

- Designed REST APIs and UI for electrical power supply visualization and transformer construction.
- Initiated and supported migration from legacy VCS to Git.
- Coordinated with international clients to discuss and implement product improvements.
- Developed components for integration with external services and configuration management.
- Developed unit and automated tests.

Tech Stack: PHP, Bash, Linux, SVN, Soap, REST, JavaScript, Vue.js, GSAP, SVG, NPM.

Software engineer at Research Park St. Petersburg State University

09/2017 – 07/2018

Saint Petersburg, Russia

The Research Park is a key part of the university's infrastructure supporting academic research and development. I worked on improving tools to support research and interdepartmental collaboration.

- Optimized a PHP-based website, improving stability and increasing user satisfaction.
- Identified and resolved critical bugs, significantly enhancing the system's reliability and performance.
- Developed tools for generating detailed analytical reports for university staff.

Tech Stack: PHP, JavaScript, Linux, Apache, Nginx, MySQL, GIT, Jenkins.

OPEN SOURCE CONTRIBUTIONS

Rclone (cloud storage syncing tool for multiple providers)

2023 - 2024

- Developed a backend integration for Telebox (linkbox.to) cloud storage provider.

Tech Stack: Golang, JSON, Cloud storages.

LXD (system container and virtual machine manager)

2022 – 2023

- Improved security by enhancing AppArmor support in LXD containers.
- Introduced txqueuelen knob for containers NIC devices.
- Fixed several bugs and added comprehensive tests for improved stability.

Tech Stack: Golang, Linux, AppArmor, Networking.

Gitea (community managed lightweight code hosting solution)

2021 – 2022

- Contributed bug fixes and implemented new features in the community-managed repository.

Tech Stack: Golang, js, html, Git.

Realtek WiFi driver (rtl8192cu) for Linux

2021

- Ported the driver from Linux kernel version 5.8 to 5.10 to ensure compatibility.

Tech Stack: C, Linux kernel.

EDUCATION

M.Sc. Applied Mathematics and Physics

09/2016 – 06/2018

Saint Petersburg State University

Saint Petersburg, Russia

B.Sc. Physics

09/2012 – 07/2016

Saint Petersburg State University

Saint Petersburg, Russia

LANGUAGES

English – fluent

Russian – native

German – beginner