

Viktor Iakovchuk

Software Engineer

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PROFILE

I am a highly motivated Backend Software Engineer with over 7 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, C, PHP, Python, JavaScript (Vue, D3), Java

Datastorages: MySQL (MariaDB, PostgreSQL), Redis, MongoDB, Kafka

Developer Tools: GIT, shell scripting, Gitlab, Github, Jira, Confluence, VS Code, Ansible

Methodologies: Agile, Scrum, CI/CD, DevOps

Administration: Docker, Kubernetes, Bash, Google Cloud, Debian GNU/Linux, Oracle Linux, LXC, Qemu (KVM), Apache, Nginx, Jenkins, networks (dhcp, iptables, nftables), strace, tcpdump, netstat

WORK EXPERIENCE

Software engineer at Wildberries

11/2023 – present

Yerevan, Armenia

I am working on high-loaded systems in a cross-functional team at Wildberries (the largest online retail platform in Eastern Europe).

- Developed, optimized and redesigned architecture for high-load (up to 40 000 RPS).
- Designed services based on event-driven architecture.
- Optimized SQL queries, that resulted in a significant reduction of the database load.
- Developed microservices, including APIs, Kafka consumers and Kafka producers.
- Collaborated with other teams and business stakeholders.

Stack: Golang, Postgress, Kafka, Kubernetes, Gitlab, GRPC, REST APIs, Agile, Scrum, CI/CD

Software engineer at Oracle

03/2020 – 08/2022

Saint Petersburg, Russia

Worked on wide software stack like GlusterFS, Pacemaker and Corosync, AWX (Oracle Linux Automation Manager), Spacewalk (Oracle Linux Manager).

- Developed new and maintained old test suites and testing scenarios for automation testing of userspace applications.
- Lay the groundwork for AWX testing.
- Ported and adopted testing instruments form different versions of Oracle Linux Distributions.

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

Software engineer at Avansoft

10/2018 – 02/2020

Saint Petersburg, Russia

Worked on PI Expert Online project (web-based program for generating a power conversion solutions):

- Worked on visualisation of electrical losses of power supplies: designed REST API and graphic charts.
- Designed and implemented from scratch a drag'n'drop UI for constructing electrical transformers, which allows to add windings, change wires and windings type, change different connection settings.
- Initiated and supported migration from legacy VCS to Git.
- Communicated with foreign customers about improvements.

Stack: PHP, Soap, REST, JavaScript, Vue.js, GSAP, SVG, NPM

Worked on a Epiphan video project (video capture and streaming):

- Developed components for integration with external services and configuration management.
- Integrated external CMS for scheduling video events.
- Developed unit and automated tests.

Stack: PHP, Bash, Linux, SVN

Software engineer at Research Park St. Petersburg State University

09/2017 – 07/2018

Saint Petersburg, Russia

Worked on Research Park task and resources tracker (a critical internal project at St. Petersburg State University, that is used for interdepartmental collaboration).

- Done the website maintenance, monitored site's performance, provided ongoing support for the existing PHP-based solution, ensuring stable operation and user satisfaction.
- Refactored legacy code to implement template-based structure, improving maintainability and scalability.
- Identified and resolved critical bugs, significantly enhancing the system's reliability.
- Contributed to the development of tools for generating detailed reports for university staff.
- Refactored legacy code, added various HTML templates.
- Developed a service for building analytical reports.

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

OTHER PROJECTS

Rclone (program to sync files and directories to and from cloud storage providers) 2023 - 2024

- Added new backend for Telebox (linkbox.to) cloud storage provider

Stack: Golang, JSON, Cloud storages

LXD (system container and virtual machine manager) 2022 – 2023

- Enhanced AppArmor support.
- Introduced txqueuelen knob for containers NIC devices.
- Fixed several bugs and added tests.

Stack: Golang, Linux, AppArmor, Networking

Gitea (community managed lightweight code hosting solution) 2021 – 2022

- Contributed bug fixes and new features to community.

Stack: Golang, js, html, Git

Realtek WiFi driver (rtl8192cu) for Linux 2021

- Ported driver from Linux kernel 5.8 to 5.10.

Stack: C, Linux kernel

IPS (Invision Power Services) 2016 – 2017

- Administrated an IPB (Invision Power Board, forum): setup, upgrade, installation of mods. Bug fix in mods.

Stack: PHP, MySQL, Javascript, html.

Minecraft server management control panel 2015

- Developed a custom Minecraft server control panel.

Stack: PHP, JavaScript, Ajax, Bash

Arduino 2014

- Used digital and analog I/O, different kind of sensors, displays and actuators for educational projects.

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