

# Viktor Iakovchuk

Software Engineer

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## PROFILE

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Software Engineer with more than 7 years of experience. Contributor to popular open source projects such as Gitea and LXD with strong knowledge of Golang and Linux. As a Golang developer I worked on high-loaded systems. Skilled in Backend, Troubleshooting, System administration, Networking and Testing.

## TECHNICAL SKILLS

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**Languages:** Golang, C, PHP, Python, JavaScript (Vue, D3), Java

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

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

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

## WORK EXPERIENCE

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### Software engineer at Wildberries

11/2023 – present

*Yerevan, Armenia*

Worked on review project for Wildberries: pinned reviews, points for reviews and reviews and questions

- Participated in architecture development for new projects
- Developed a microservice for realizing multiple APIs, Kafka consumers and producers
- Optimising and redesigning for high-load

**Stack:** Golang, Postgress, Kafka, Kubernetes, Gitlab, GRPC, REST APIs

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

## Software engineer at Avansoft

10/2018 – 02/2020

*Saint Petersburg, Russia*

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

- Worked on visualisation of electrical losses of power supplies: design REST API, design charts.
- Designed and implemented from scratch drag'n'drop UI for building transformer construction 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 on improvements.

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

Project in Epiphan video (a privately held audiovisual equipment manufacturer):

- Developed components for integration with external services, configuration management.
- Participated in integration with external CMS for scheduling video events.
- Automated testing.

**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:

- Maintenance.
- Refactored legacy code to use templates.
- Developed tools for building reports.

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

## OTHER PROJECTS

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### 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**

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**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**

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**English** – fluent

**Russian** – native

**German** – beginner