

# Serhii Ivanov

Senior Software Engineer | Golang | Kubernetes | SRE | DevOps

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GitHub

## SUMMARY

Proactive software engineer with Golang as language of choice. I am used to wearing many hats and generally very flexible when investigating new roles.

## EDUCATION

**Polish-Japanese Academy of Information Technology (4,66 (ECTS points: 56))** 2022-10-01 — 2024-09-30

*Magister (unfinished) (Engineering of software, business processes and databases)*

- Software engineering
- Database Systems
- Computer Networks and Network Programming in Java
- Data integration and data warehouses
- Programming for data science/analysis
- Database management

**Ukrainian Engineering and Pedagogical Academy of Bakhmut (Artemivsk) (First Class Honours (ECTS points: 60))** 2007-09-03 — 2013-08-30

*Specialist (Magister) (Professional education. Telecommunications and communications)*

## EXPERIENCE

**SRE | DevOps - SignalWire, Remote** 2018-06-01 — Present

Freelance SRE and DevOps role focused on build system maintenance, software packaging for Linux distributions, and CI/CD workflow management using GitHub Actions.

- Maintenance of build systems that utilize Autotools, Make, CMake.
- Packaging software for Debian and Redhat based Linux distributions (DEB, RPM).
- Maintenance of CI/CD workflows using GitHub Actions.
- Facilitation of migration from Bamboo to GitHub Actions.

**Senior Software Engineer - CloudLinux, Remote** 2024-03-01 — 2024-10-01

Contract role focused on migrating security products from Python to Golang and researching WAF integration solutions.

- Migration of Python based AV product, Imunify360, to Golang code base
- Research project about using Coraza/Modsecurity WAF with NGINX

**Senior Software Engineer - Mirantis, Remote** 2020-08-01 — 2023-12-01

Senior Software Developer role focused on Kubernetes operator development, BareMetal server provisioning, and performance optimization in large-scale cluster environments. Contributed to open source projects and developed custom solutions for Kubernetes and OpenStack integration.

- Developed and managed Kubernetes operators and ClusterAPI providers for BareMetal server provisioning and life-cycle management.
- Developed iPXEdge controller bridging Kubernetes and OpenStack ironic integration.
- Created a DHCPv4 Relay in pure Golang for dynamic Kubernetes cluster environments.
- Improved BareMetal servers provisioning performance in large Kubernetes clusters by up to 10x.
- Collaborated with system engineers and developers on complex system requirements.
- Contributed to open source projects including Metal3.io and OpenStack.

**Software Engineer (Golang) | Team Lead - Internet Invest | Mirohost, Kyiv, UA** 2017-07-01 — 2020-08-01

Led development of various infrastructure and container management solutions using Golang, with a focus on security, monitoring, and performance optimization.

- Led team, coordinated projects, and mentored junior staff.
- Developed back-end infrastructure-related services using Golang.
- Created fanotify-based file modification monitoring for Linux containers.
- Implemented custom L7 and L2/L3 DDoS protection using Nginx.
- Developed distributed TLS certificate storage using Golang FUSE filesystem.
- Created WebUI for container backup solution using Gin, Semantic UI, and PostgreSQL.
- Implemented network hooks for LXC/LXD and Libvirt for advanced networking setups.
- Developed API, WebUI, and CLI for website screenshots using CDP and headless Chromium.
- Created custom Cgroups monitoring agent for Linux containers with Clickhouse and Grafana.

Responsible for server and container provisioning and maintenance, leveraging SaltStack and in-house solutions to manage infrastructure efficiently.

- Managed BareMetal server and Linux Containers provisioning (in-house solution | SaltStack) and maintenance.
- SaltStack leveraging Salt-SSH for container maintenance.
- Maintained Salt in Master-Minion mode for BareMetal servers.
- Worked with various datacenter (hardware) and web-hosting (software) related technologies.

#### System Administrator (Level 1 Support) - Internet Invest | Mirohost

2015-04-01 — 2016-05-01

Responsible for infrastructure administration, server monitoring, and providing tailored hosting solutions and technical support to customers.

- Administered and provisioned network infrastructure and equipment.
- Monitored BareMetal servers, services, and data transport channels using Zabbix and Nagios.
- Provided customer consultation and extensive technical support.
- Tailored Linux Containers based hosting solutions to meet various customer requirements.
- Managed software including Nginx, Apache, PHP, MariaDB/MySQL, Redis, Memcached, Sphinx, Elasticsearch, and Varnish.

## PROJECTS

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### Mirantis DHCP Relay

The Mirantis DHCPv4 Relay is a lightweight, containerized DHCPv4 relay agent designed for use in container environments.

- Implements DHCPv4 relay functionality for containerized environments
- Open-source project

### nginx-js-challenge

nginx-js-challenge is a security addon for NGINX that implements a JavaScript-based challenge-response mechanism.

- Implements JavaScript-based challenge-response mechanism for NGINX
- Provides protection against DDoS attacks and bot traffic
- Uses browser's JavaScript execution capabilities for verification
- Integrates with NGINX using the njs module
- Open-source project with MIT license

### go-fanotify

go-fanotify is a Go library that provides bindings for the Linux fanotify API.

- Provides Go bindings for the Linux fanotify API
- Enables file system monitoring and notification in Go programs
- Supports various fanotify events and flags
- Includes examples for basic usage and advanced features
- Allows for efficient file system auditing and access control
- Open-source project with MIT license

### libvirt-ipmi

A Python-based IPMI Baseboard Management Controller (BMC) implementation for managing Libvirt virtual machine domains, designed for CI and development environments.

- IPMI v2.0 protocol implementation for Libvirt virtual machines
- Multi-domain management with concurrent access control
- EFI/BIOS boot mode detection and configurable fallback boot order
- Supports standard IPMI commands via ipmitool
- Python 3.10+ compatible with stateless configuration
- Open-source project with Apache-2.0 license

## SKILLS

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### Backend Development (Senior):

Golang   Kubernetes Operators   Gin (Go web framework)

### DevOps & SRE (Senior):

Computer Networking   Containerization   Virtualization   Docker   GitHub Actions   Kubernetes   Linux   Shell   TCP/IP   Troubleshooting

### Other (Middle):

ClickHouse   Data Analysis   Java   Microservices architecture   MySQL   Neo4j   PostgreSQL   Python   Redis

## CERTIFICATIONS

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English Level C2 PROFICIENT - EF SET Certificate

2023-02-26

Sveltos Community Ambassador - Project Sveltos

2025-07-14

<b>DevOps Professional Certificate by PagerDuty and LinkedIn - PagerDuty</b>	2025-08-29
<b>Docker Foundations Professional Certificate - Docker</b>	2024-09-29
<b>Career Essentials in GitHub Professional Certificate - Github</b>	2024-10-06
<b>LambdaTest Software Testing Professional Certificate - LambdaTest</b>	2024-12-17
<b>Microservices Foundations Professional Certificate - Kong Inc.</b>	2024-12-24
<b>Linux: System Maintenance - LinkedIn</b>	2024-11-01
<b>Linux Performance Tuning - LinkedIn</b>	2024-11-01
<b>Linux System Engineer: Networking and SSH - LinkedIn</b>	2024-10-29
<b>Linux Security and Hardening Essential Training - LinkedIn</b>	2024-11-06
<b>Cloud Security and Audit Fundamentals: AWS, Microsoft Azure, and Google Cloud - LinkedIn</b>	2024-11-06
<b>CN330: Advanced Kubernetes Security - Mirantis Training</b>	2023-03-09
<b>CN320: Advanced Kubernetes Operations - Mirantis Training</b>	2023-03-08
<b>OS220: OpenStack Administration &amp; Operations - Mirantis Training</b>	2023-03-08
<b>CN220: Kubernetes Operations - Mirantis Training</b>	2023-03-07
<b>CN230: Kubernetes Native Application Development - Mirantis Training</b>	2023-03-07
<b>OS100: OpenStack Essentials - Mirantis Training</b>	2023-03-05
<b>CN120: Kubernetes Application Essentials - Mirantis Training</b>	2023-02-28
<b>CN110: Docker Swarm Application Essentials - Mirantis Training</b>	2023-02-27
<b>CN050: Introduction to Cloud Native Computing - Mirantis Training</b>	2023-02-25
<b>CN100: Docker Containerization Essentials - Mirantis Training</b>	2023-02-25
<b>Intermediate Cypher Queries - Neo4j</b>	2023-07-30
<b>Introduction to Neo4j Graph Data Science - Neo4j</b>	2023-04-18
<b>Importing CSV Data into Neo4j - Neo4j</b>	2023-04-18
<b>Graph Data Modeling Fundamentals - Neo4j</b>	2023-04-17
<b>Cypher Fundamentals - Neo4j</b>	2023-04-12
<b>Neo4j Fundamentals - Neo4j</b>	2023-04-12
<b>Data Science on Google Cloud Platform: Designing Data Warehouses - LinkedIn</b>	2024-11-01
<b>Ethical Hacking: Introduction to Ethical Hacking - LinkedIn</b>	2024-11-02
<b>Ethical Hacking: Scanning Networks - LinkedIn</b>	2024-11-02
<b>Ethical Hacking: Denial of Service - LinkedIn</b>	2024-11-03
<b>Ethical Hacking: Session Hijacking - LinkedIn</b>	2024-11-03
<b>Ethical Hacking: Hacking Web Servers and Web Applications - LinkedIn</b>	2024-11-03
<b>Ethical Hacking: Footprinting and Reconnaissance - LinkedIn</b>	2024-11-02
<b>Ethical Hacking: Evading IDS, Firewalls, and Honeypots - LinkedIn</b>	2024-11-04
<b>LambdaTest Test Automation Professional Certificate - LambdaTest</b>	2024-11-15
<b>Learning Puppet - LinkedIn</b>	2024-11-01
<b>Introduction to Prompt Engineering for Generative AI - LinkedIn</b>	2024-11-21
<b>Build Your Generative AI Productivity Skills with Microsoft and LinkedIn - Microsoft</b>	2024-11-24
<b>Career Essentials in System Administration by Microsoft and LinkedIn - Microsoft</b>	2024-11-09
<b>Career Essentials in Sustainable Tech by Microsoft and LinkedIn - Microsoft</b>	2024-11-11
<b>Career Essentials in Generative AI by Microsoft and LinkedIn - Microsoft</b>	2025-08-21

<b>Career Essentials in Software Development by Microsoft and LinkedIn - Microsoft</b>	2025-08-24
<b>Career Essentials in Cybersecurity by Microsoft and LinkedIn - Microsoft</b>	2025-08-27
<b>Vector Databases Professional Certificate by Weaviate - Weaviate</b>	2025-09-16
<b>Data Engineering Foundations Professional Certificate - Astronomer</b>	2025-10-25
<b>Cloud Strategy Professional Certificate - LinkedIn</b>	2025-10-31
<b>Penetration Testing Professional Certificate - Cybrary</b>	2025-11-16
<b>Network Automation Professional Certificate - Arista Networks</b>	2025-11-22
<b>Programming with Python Professional Certificate - OpenEDG Python Institute</b>	2025-12-06
<b>Ubuntu Linux Professional Certificate - Canonical</b>	2025-12-07
<b>Anaconda Python for Data Science Professional Certificate - Anaconda</b>	2025-12-14
<b>Machine Learning Statistical Foundations Professional Certificate - Wolfram Research</b>	2025-12-14
<b>Python for Data Science Professional Certificate - Anaconda</b>	2025-12-21
<b>Java Foundations Professional Certificate - JetBrains</b>	2025-12-21
<b>JavaScript Foundations Professional Certificate - Mozilla</b>	2025-12-21
<b>C++ Programming Professional Certificate - OpenEDG C++ Institute</b>	2025-12-26

## LANGUAGES

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English (*C1*) , Ukranian (*Native speaker*) , Russian (*Native speaker*)