

# VLADIMIR OSTAPENCO

## DEVOPS ENGINEER

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I am a DevOps engineer with a PhD in Computer Science passionate about cloud computing, cybersecurity, and open-source technologies.

For more than 7 years, I am working with various cloud technologies, focusing on deployment automation, container orchestration, CI/CD pipelines, monitoring, and energy efficiency.

I enjoy learning about new technologies and sharing my knowledge with others through lectures and practical sessions on container orchestration, log management, and various security topics.

Throughout my career, I have worked on several projects developed in various languages such as Python, C, JavaScript/Node.js and Rust.

During my PhD, I worked on energy efficiency and carbon footprint reduction of large-scale cloud data centers and co-authored several scientific papers.

I am currently an independent DevOps engineer promoting DevSecOps culture and specializing in Kubernetes, Ansible, Terraform and Python.

## EXPERIENCE

### VladOst, Lyon

2025 - Present

#### Independent DevOps engineer

Specializing in Kubernetes, Ansible, Terraform and Python, I provide my expertise for:

- Planning, deployment, auditing, optimization, and administration of Kubernetes clusters
- Migration to Kubernetes environment and implementation of GitOps principles
- Automation of infrastructure deployment and management with Terraform and Ansible
- Automation of processes and development of tools with Python and Bash
- Creation, administration and optimization of CI/CD pipelines
- Securing infrastructure, CI/CD pipelines and container images
- Support in the adoption of DevOps culture and principles

### Claude Bernard University, Lyon

2018 - Present

#### Part-time teacher

Lectures and practical work sessions for master's degree students on:

- **Infrastructure:** Kubernetes, Log Management (ELK/EFK Stacks, Graylog, Grafana Loki)
- **Security:** OWASP Top Ten, VPN (IPsec, OpenVPN, WireGuard)

### Lugus Labs, Lyon

2019 - 2024

#### Developer - DevOps Engineer - Cofounder

- Development of a high-availability solution for blockchain PoS (Proof-of-Stake) validator nodes
- Operation of a cluster of highly available distributed validator nodes with supervision and log centralization stacks
- Co-organization of local blockchain meetings in Lyon (France)

**Skills:** Node.js, Rust, Python, Ansible, Terraform, Docker, Prometheus, Loki, Grafana, WireGuard

### iExec Blockchain Tech, Lyon

2017 - 2019

#### System Administrator - DevOps Engineer

- Design and creation of cloud and on-premises infrastructures
- Infrastructure deployment automation
- Implementation of a CI/CD pipeline as well as supervision and log centralization stacks
- Lead of highly-available Ethereum nodes on Kubernetes project
- Main developer of iExec Stack Deployment Engine project

**Skills:** AWS, VMWare, Cisco, Ansible, Terraform, Github, Jenkins, Drone, SonarQube, Prometheus, Grafana, Graylog, Kubernetes, Python

### Claude Bernard University, Lyon

2016 - 2017

#### System Administrator - Internship

- Planning, deployment and automation of the deployment of a log centralization solution
- Deployment of a container orchestration solution and a CI/CD pipeline

**Skills:** Graylog, Puppet, Foreman, Kubernetes, Rancher, Gitlab CI/CD

## SKILLS

● Kubernetes, Helm, Docker

● Ansible, Terraform

● GitLab CI/CD, Jenkins, GitHub Actions, Argo CD

● GCP, AWS, OVHcloud, OpenStack

● Grafana, Prometheus, Loki, Graylog, ELK

● Python, Bash, JavaScript, Node.js, C, Rust

## EDUCATION

● École normale supérieure de Lyon

2021 - 2024

**PhD degree in Computer Science**

Energy efficiency and environmental impact reduction of large-scale cloud data centers. Explored in my thesis:

- Techniques and tools for measuring and modeling energy consumption
- Techniques for reducing energy consumption and carbon footprint of cloud data centers and their orchestration
- VM consolidation in production large-scale cloud infrastructure

**Technologies and tools:** Python, C, Intel/AMD RAPL, Nvidia NVML, DVFS, OpenStack, Prometheus, constraint solvers (OR-Tools, Gurobi, Hexaly), PowerAPI, Scaphandre

● Claude Bernard University, Lyon

2015 - 2017

**Master's degree in Systems, Networks and Virtual infrastructures**

Linux and Windows system administration, infrastructure management and supervision, project management, network security, cloud and virtualization technologies, databases

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## LANGUAGES

● Russian (Native)

● French (Bilingual)

● English (Fluent)

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## HOBBIES

● Cycling

● Hiking

● Music production