



Oleksandr Kukhar

DEVSECOPS ENGINEER
DOYLESTOWN, PA

To seek a challenging position in a professional organization which will help me enrich technical skills and take up greater responsibilities. That will enable me to use my skills and abilities to make contributions to the company as well as to collaborate with teammates for achieving our common goals.

Work

ISCO Solutions LLC

11/01/2022 – present

SENIOR DIRECTOR OF DEVSECOPS

Business Cybersecurity, DevSecOps Consulting

Website isco.ai

Address Doylestown, PA, US

As Senior Director of DevSecOps and Lead Security Architect for AWS at Sparta Science (spartascience.com), I spearheaded the company's efforts to implement robust information security practices in the cloud. My key responsibilities and accomplishments include:

- Developing secure EC2 image builder pipelines with CIS-benchmarked and STIG'd "golden" AMIs and base container images for enhanced security
- Configuring and managing AWS GuardDuty and SecurityHub to monitor and detect threats across the AWS environment
- Setting up and configuring a centralized logging system based on AWS Elasticsearch for efficient audit log management and analysis
- Implementing Wazuh and Nessus Pro for runtime vulnerability scanning, ensuring proactive identification and mitigation of potential risks
- Establishing static code analysis in GitHub and dependency scanning with GitHub Dependabot for continuous security assessment of code and dependencies
- Orchestrating continuous penetration testing using GitHub Actions to validate the resilience of the infrastructure and applications against cyber attacks
- Consulting Sparta Science on the preparation for a successful SOC 2 Type 2 audit, ensuring adherence to industry standards and regulatory requirements

Self-employed

05/16/2021 – 06/01/2022

DEVOPS CONSULTANT - AWS

Business IT Consulting, Custom Software Development

Website kyxap.pro

Address Krasnodar, Russia

As a DevOps Consultant - AWS, I collaborated with the client team at Sparta Science (spartascience.com) to optimize cloud infrastructure and enhance information security. My key accomplishments include:

- Configured and deployed a production-ready AWS ECS cluster to support a Node.js application, ensuring optimal performance and scalability
- Implemented SELinux policies and centralized audit logging to establish proper level of security hardening of OS base images
- Managed an RDS Aurora PostgreSQL database optimized for high availability
- Implemented comprehensive AWS infrastructure security measures
- Helped preparing Sparta Science for a FedRAMP audit
- Collaborated with development and project management teams on AWS best practices and cost optimization

Fasten, Inc.

01/18/2016 – 05/14/2021

LEAD DEVOPS ENGINEER - AWS

Business Online Taxi SaaS Platform, Taxi App

Website fasten.com

Address Krasnodar, Russia

Fasten is one of the world's largest taxi services, renowned for its brands "RuTaxi", "Vezyot", "Saturn", "RedTaxi," and "Leader". As a Lead DevOps Engineer, my primary focus was on standardizing various project components to ensure that test environments were relevant to the business workflow. Under my leadership, the following DevOps initiatives were implemented:

- Designed and executed CI/CD pipelines for over 80 microservices in AWS
- Transitioned infrastructure to Infrastructure-as-Code (IaC) using AWS CloudFormation, ensuring immutability
- Established traceable environments coupled with a reporting system for enhanced monitoring in AWS
- Fostered knowledge sharing among the development team, promoting AWS best practices
- Introduced code review processes and automated code quality analysis using AWS CodeStar and other tools
- Additionally, I contributed to the architectural design of a new ride-sharing platform intended to replace the existing one, leveraging AWS services for scalability and performance

Successful Development, Inc.

05/01/2012 – 01/15/2016

LEAD SYSTEM ADMINISTRATOR

Business Custom Software Development, IT Consulting

Website sfdev.com

Address Simferopol, Ukraine

As a contractor at Successful Development, Inc. (Sfdev), I worked with multiple high-profile clients including SilverTreeSystems, Inc., Joyent, and Adobe, Inc. My main responsibilities involved designing infrastructure, integrating software APIs, and working with various PaaS platforms. Here are some key projects and contributions for each client:

Adobe, Inc.

- Participated in the development of Adobe Creative Cloud, Adobe Marketing Cloud, and Adobe Document Cloud services, which runs on Amazon AWS
- Designed, prototyped, and implemented key platform components, such as live data encryption system, backup and restore system for clustered environments, sophisticated space management system, and multiregional data migration system
- Employed tools and technologies such as chef, bash, tcsh, mysql, perl, ruby, java, lvm, dm-crypt, AWS, and RHEL

Joyent

- Participated in the development of Joyent SmartDataCenter platform
- Developed Docker support integration, Windows images build system, and Linux images build system
- Utilized technologies such as pxe, windows aik, nodejs, mongodb, docker, linux, smartos and solaris

SilverTreeSystems, Inc.

- Designed infrastructure and provided integration between different software APIs and PaaS platforms, such as Salesforce and Heroku.
- Developed B2B services, including a cloud-based virtual call center for SoVox company (10k+ employees worldwide), a subscription management system called Avalon (used by IBM, Dell, and Google), and a data analysis and report generation system.

HQHost

04/01/2005 – 01/05/2012

SENIOR SYSTEM ADMINISTRATOR

Business Hosting Provider

Website hqhost.net

Address Simferopol, Ukraine

As a part of a team ensuring 24/7/365 service availability, I provided third-tier support to a LAMP stack shared hosting platform with over 500 physical nodes. My key responsibilities included:

- Designing, planning, installing, configuring, administering, and tuning applications, database, and web servers to maintain optimal performance
- Developing monitoring and alerting systems to proactively manage infrastructure health and stability
- Creating a management and deployment system for KVM/Xen hypervisors, along with an internal control panel for streamlined administration
- Developing the dedicated server management panel, dedikit.net, to enhance user experience and functionality
- Participating in migrations between data centers, identifying and implementing solutions to address system performance, security breaches, DDoS attacks, and server functionality
- Collaborating closely with upstream providers and data center staff through tickets and abuse boards, ensuring efficient issue resolution
- Remotely configuring active L2/L3 network equipment, including Cisco 29xx/35xx switches and routers
- Assisting customers through email, ICQ, Jabber, and control panel ticketing systems, providing exceptional support and guidance

ProManage

01/01/2008 – current

FOUNDER

Business IT Consulting

Website pro-manage.net

Address Simferopol, Ukraine

Remote System Administration Services

Opticom Networks

01/05/2004 – 02/01/2010

SENIOR UNIX ADMINISTRATOR

Business Network Provider

Address Simferopol, Ukraine

Designing, planning and implementing network infrastructure.

- Fiber networks hardware
- Configuration of L2/L3 devices Cisco/Telco/Dell/Nortel/3Com
- Public services administration: ftp, lamp, proxy

Sinet Networks

12/01/2002 – 10/31/2010

UNIX ADMINISTRATOR

Business Network Provider

Address Simferopol, Ukraine

Designing, planning and implementing network infrastructure.

Technology & Business

12/01/2002 – 09/31/2004

SUPPORT SPECIALIST

Business Software Development, IT Consulting

Address Simferopol, Ukraine

Provided customers support and performed software consultations.

The National Academy of Environmental Protection and Resort Development

08/01/2000 – 09/31/2001

LABORATORY ASSISTANT

Business University Education

Address Simferopol, Ukraine

Provided technical support, performed software consultations, maintained laboratory's hardware.

DevOps Patterns

- Immutable Infrastructure
- Infrastructure as a Code
- Infrastructure as a Service
- Continuous Integration
- Continuous Deployment

Operating systems

- RHEL/CentOS/AL2/Debian/Ubuntu/Gentoo
- FreeBSD
- Solaris

Continuous Integration

- gitlab, jenkins, github actions

Load Balancers

- nginx, haproxy

Infrastructure Automation

- ansible, terraform
- consul, vault, packer
- helm

Application Monitoring

- elk, prometheus

Programming Languages

- perl, php, ruby, lua, golang

Containers

- docker, lxc, openvz, jail

Web Servers

- nginx, apache

Scripting

- sh, bash

Databases

- mysql, postgresql, cassandra

Java

- j2ee, maven, wildfly

Virtualization

- xen, kvm, libvirt

Monitoring

- zabbix, nagios
- munin, monit

Software Development

- jira, bitbucket
- github, slack
- gitlab, mattermost

Version Control

- git, svn

Protocols

- dns, http, smtp, ssh
- ldap, snmp, xmpp

Storage

- lvm, iscsi, drbd, zfs
- hw controllers

Editors

- neovim, sed, awk