

SERHII MANZHOS

System administration, development automation and operations



CONTACTS

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LANGUAGES

English Intermediate (B1)
Ukrainian Native speaker
Russian Native speaker

EDUCATION

STEP IT Academy
Prog.Kiev.ua
FoxMinded
University of Cambridge English

INTERESTS

Fishing
Testnet networks
Raspberry Pi

SKILLS

Linux and Network
Bash/Shell Python
C/C++
Java

PROFILE

Results driven person with a proactive technically oriented approach and a stable growth mindset. The extensive experience of organizing and creating the environment for employees of enterprises with the subsequent provision of automatic monitoring and management. Strong interest in encryption areas, cloud storages.

EXPERIENCE

Senior DevOps Engineer — MAVAN, Bitmine Kyiv | 02.2024 – Present

- Operating distributed production infrastructure, ensuring stability, availability and reliability of server services.
- Infrastructure monitoring, alert analysis, incident triage and support of production services, including planned updates and automation of routine operations.
- Supporting blockchain/Web3 infrastructure: node health, synchronization checks, performance and network monitoring, detecting service degradations.
- Maintaining high-load distributed systems: service health control, performance checks, log analysis and recovery after technical failures.
- Writing internal runbooks and automated procedures to speed up incident response and improve maintenance predictability.

Working stack:

OS: Ubuntu

Systems & Services: Linux/Ubuntu, Docker, monitoring & alerting, infrastructure automation, incident response, production support, network diagnostics, blockchain/Web3 infrastructure

PERSONAL PROJECTS

WhiteRock AI

Self-hosted AI platform for cryptocurrency market analysis & algorithmic trading

- Designed and implemented the microservice architecture and self-hosted AI infrastructure on own servers.
- Prepared the GPU environment for local ML/LLM models: NVIDIA drivers, CUDA, Docker and GPU passthrough into containers.
- Integrated multiple AI services (DeepSeek orchestrator, FinGPT/FinBERT, Prophet, Darts, RL, Fuzzy Logic, Ensemble) into a single analytical pipeline.

Docker	
Vagrant	
Ansible	Built the observability stack (Prometheus, Loki, Promtail, Grafana) with health-checks, logging, monitoring and alerting.
Git	Set up market-data collection via Bybit API with reproducible builds, updates, backups and recovery.
GitLab CI/CD	
Jenkins	
MySQL/MariaDB	
MongoDB	
PostgreSQL	
Redis	
Zabbix	
Jira	
Confluence	
Grafana	
Terraform	
LXC	
VirtualBox	
	Stack: Linux, Docker, Docker Compose, Python, FastAPI, Redis, PostgreSQL, Prometheus, Grafana, Loki, Promtail, NVIDIA CUDA, GPU, Ollama, DeepSeek, Prophet, Darts, FinBERT, FinGPT, Reinforcement Learning, Bybit API, CCXT, WebSocket, REST API, Nginx W3Fans <i>Web3 platform for content monetization and instant creator payments</i> - Co-created and technically developed the Web3 platform; designed the backend architecture and self-hosted production environment. - Configured Docker infrastructure, reverse proxy, TLS and baseline security (rate limiting, security headers, service isolation). - Integrated Web3 authentication via crypto wallet & message signing; participated in smart-contract payment logic with atomic payment split. - Implemented subscriptions, premium content, tips and content unlock with real-time WebSocket updates. - Worked on private-file security, ACL access and media protection; on-chain admin model via Safe multisig. Stack: Linux, Docker, Docker Compose, Nginx, Let's Encrypt, React, Node.js, WebSocket, PostgreSQL, Redis, Ethereum, Solidity, Smart Contracts, MetaMask, WalletConnect, Chainlink Oracle, Safe Multisig, WebRTC, JWT, ACL, REST API, Web3

L2 support

Kyiv | 08.2023 – 12.2024

- Support of the existing enterprise infrastructure.
- Processing client inquiries and resolving current issues.
- Updating the software of the existing software solutions.
- Infrastructure monitoring using HashiCorp: Nomad, Vault, Consul.

Working stack:
OS: Ubuntu

Systems & Services: Ansible, GitHub, Prometheus, BitWarden, ELK, Grafana, LXC, Docker, Nomad, Consul, Vault

DevOPS engineer

Kyiv | 01.2023 – 06.2023

- Support of the existing enterprise infrastructure.
- Implementation of monitoring for the test server environment (Zabbix).
- Fulfilling the duties of an On-Call Engineer.
- Processing client inquiries and resolving current issues.
- Updating the software of the existing software solutions.

Working stack:
OS: Ubuntu, Debian, CentOS

Systems & Services: Ansible, GitHub, Prometheus, BitWarden, ELK, Grafana, LXC, Docker

DevOPS engineer

Kyiv | 01.2022 – 01.2023

- Automation of the development process and operation (Ansible)
- Implemented Bitwarden, a corporate password management service that stores sensitive information
- Implementation and maintenance of a monitoring system, and an event notification system (Prometheus, Grafana, ELK, Telegram, Slack, Skype)
- Implemented cloud infrastructure of virtual machines (VirtualBox, Vagrant, Docker)
- Implemented system administration control panel for cloud infrastructure (Webmin, Virtualmin)
- Implemented private network system (OpenVPN, WireGuard)
- Written a lot of websites (Wordpress)
- Resolve complex technical issue in existing infrastructure
- Timely detect and resolve incidents via Slack, PagerDuty and Zabbix monitoring

Working stack:

OS: Ubuntu, Debian, CentOS, FreeBSD

Systems & Services: Ansible, GitHub, Prometheus, OpenVPN, WireGuard, BitWarden, ELK, Grafana, VirtualBox, Vagrant, Docker

System administrator at multiple companies

Kyiv | 09.2015 – 01.2022

- Organization of high-performance crypto-protected file storages with cascaded ciphers algorithm (LUKS, ZFS, VeraCrypt)
- Implemented high-performance crypto-protected workstations (Windows, VeraCrypt)
- Implemented private network system (OpenVPN, WireGuard)
- Implemented corporate messenger with real-time End-to-end encryption (E2EE) and PGP encryption (ejabberd)
- Implemented corporate mail server (cPanel)
- Implemented corporate collaboration platform with military-grade encryption and a large number of advanced security protections (NextCloud)
- Implemented anonymization systems (Raspberry Pi, Tor)
- Implemented 1C-server with encrypted file storage
- Implementation of corporate email using ProtonMail Business
- Implementation of a corporate messenger using Threema Work
- Setting up a file server in a data center
- Configuring PCs for remote file server operations
- Configuration of instant recovery of remote data (documents, photos, spreadsheets, PDFs)

Working stack:

OS: Ubuntu, CentOS, Windows

Systems & Services: GitHub, OpenVPN, WireGuard, BitWarden, VeraCrypt, Tor, NextCloud, WordPress, Windows Server, 1C