

Jahongir Qasimbayev

System Administrator · Cybersecurity Specialist · Python / Go / C++ Developer

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SUMMARY

Motivated cybersecurity specialist and system administrator skilled in Linux administration, network security, virtualization, and full-stack development. Experienced in building systems from bare metal, designing security monitoring platforms, and simulating enterprise networks.

EXPERIENCE

Lead Developer & System Architect

2025-01 – Present

Server Sentinel (independent project)

Designed and built a multi-agent intrusion detection and automated incident response SaaS — 9 microservices in a pnpm monorepo with graceful degradation as a core reliability requirement.

Security Researcher / Network Engineer

2024-09 – 2025-05

Diploma Thesis — ML-Based Network Intrusion Detection

Built a multi-segment GNS3 lab simulating an enterprise network, generated labeled attack datasets, and trained an ML classifier to separate malicious from legitimate traffic.

System Administrator / Lab Engineer

2024-01 –

Virtualization & GPU Passthrough Lab

Built a Windows 11 VM on Arch Linux with full NVIDIA GPU passthrough (KVM/QEMU, IOMMU, Looking Glass) for high-performance workloads.

SELECTED PROJECTS

Server Sentinel

AI-powered security monitoring SaaS: a multi-agent intrusion detection and automated incident response platform for the Uzbekistan/CIS market. Nine microservices in a pnpm monorepo, a safe attack-simulation mode (issimulated), and a four-tier pricing model — built with graceful degradation as a first-class requirement.

Go · Python (FastAPI) · TypeScript · React · PostgreSQL · Redis · WebSockets

ML-Based Network Intrusion Detection System

Diploma thesis. A multi-segment virtual lab in GNS3 simulating a realistic enterprise network (Debian VMs + Cisco IOS router). Generated labeled datasets via ICMP flood, port-scan and SSH brute-force simulations, then trained and evaluated an ML classifier on the captured traffic.

GNS3 · Python · Scikit-learn · Debian · Cisco IOS · Wireshark

Virtualization & GPU Passthrough Lab

A Windows 11 VM on Arch Linux with full NVIDIA GPU passthrough via KVM/QEMU. Looking Glass for low-latency framebuffer sharing without a second monitor; careful IOMMU grouping, PCI isolation and device binding for stable passthrough.

Arch Linux · KVM/QEMU · NVIDIA GPU Passthrough · Looking Glass · libvirt

EDUCATION

School 21 (42 Network) Cybersecurity Program — Cybersecurity	2024 – 2026
Academic Lyceum of TUIT Diploma — Computer/IT Administration and Management — Computer / IT Administration	2024-08 – 2026-06
IT Academy of Farobiy Foundation Degree — Information Technology — Information Technology	2022-10 – 2023-08
Al-Khwarizmi Specialized School (Math & Physics) Middle School Diploma — Economics	2021-09 – 2024-05

SKILLS

Languages: Python, Go, TypeScript, C++, Bash, Swift
Frameworks: React, FastAPI, Node.js, WebSockets, REST APIs, Telegram Bot API
Security: IDS / IPS, Vulnerability Assessment, Penetration Testing, System Hardening, Wireshark
Tooling: KVM / QEMU, GPU Passthrough, GNS3, Docker, PostgreSQL, Redis, Git, Cisco IOS
OS / Systems: Arch Linux, Kali Linux, Debian, Hyprland, systemd, Windows 11

CERTIFICATIONS

Cybersecurity Program — School 21 (42 Network)	2024
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