Lukas Macura
Expert CTO, Co-Owner

SUMMARY

- Over 25 years of expertise in network management, design, and security-focused automation, with leadership roles including CTO and Head of Operations.
- Proficient in Perl, Python, and C, with extensive experience in protocols (XML, JSON, YAML, REST) and databases (MySQL, PostgreSQL, SQLite, ElasticSearch).
- Skilled in containerization and orchestration using Docker, Proxmox, and Gitlab CI/CD pipelines, emphasizing continuous development and automation.
- Active contributor and maintainer of multiple open-source projects such as LetheanVPN, AIdraw, and Zabbix integrations
- Solid academic foundation with a PhD in Computer Science and practical experience across Linux, FreeBSD

TECHNICAL SKILLS

Main Technical Skills	MS SQL Server Management Studio (25 yr.), AWS Security Groups (25 yr.), QA Automation (5 yr.), Python
Programming Languages	Python
Java Libraries and Tools	JSON
Rust Frameworks	juniper
Security	AWS Security Groups (25 yr.), Qualys
Databases & Management Systems / ORM	AWS ElasticSearch, MS SQL Server Management Studio (25 yr.), MySQL, PostgreSQL, SQLite
Amazon Web Services	AWS ElasticSearch, AWS Security Groups (25 yr.)
Deployment, CI/CD & Administration	CI/CD, GitLab CI
Mail / Network Protocols / Data transfer	Cisco, PfSense
Virtualization, Containers and Orchestration	Docker, Proxmox
Operating Systems	FreeBSD, Linux, Windows
Version Control	Git
Blockchain and Decentralized Software	Linea
Platforms	OpenWrt
	Perl, YAML

Scripting and Command Line Interfaces	
QA, Test Automation, Security	QA Automation (5 yr.)
Methodologies, Paradigms and Patterns	REST
File Systems, Storage	XML
Logging and Monitoring	Zabbix
Other Technical Skills	Executive Coaching, Fortinet, LaTeX, PaloAlto

WORK EXPERIENCE

CTO, Co-Owner - Foresight Cyber, s.r.o. (Foresight Cyber)

Duration: 2018 — 2023
Summary:

- Foresight Cyber, s
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- is a company based in Ostrava, Czech Republic, focused on cybersecurity solutions and services
- The company aims to provide advanced cyber defense and security management for its clients

Responsibilities:

- Leading the company's technology strategy and development.
- Overseeing cybersecurity projects and operations.
- Driving innovation and implementation of security solutions.
- Managing technical teams and coordinating with stakeholders.

Board of advisors, Developer - Lethean Foundation (Lethean Foundation)

Duration: 2018 — 2020
Summary: Lethean Foundation is an organization focused on privacy and security technologies, including the development of LetheanVPN, a privacy-focused VPN service based on blockchain technology.
Responsibilities:

- Advising on project development and strategic direction.
- Contributing to software development, particularly in privacy and security tools.
- Supporting open-source initiatives related to LetheanVPN.

Technologies: Blockchain, VPN, Python, C

Head Of Operations, Co-Owner - Jirasek Security Operations, s.r.o. (Jirasek Security Operations)

Duration: 2017 — 2018
Summary:

- Jirasek Security Operations, s
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- is a security operations company based in Kavina, Czech Republic, providing cybersecurity services and network security management

Responsibilities:

- Managing daily security operations and company activities.
- Overseeing network security design and implementation.
- Leading operational teams and coordinating security projects.

Technologies: Network security, Cisco, Juniper, PaloAlto, FortiNet

Point of Presence administrator - CESNET (CESNET PoP Administration)

Duration: 2000 — 2016
Summary:

- CESNET is the Czech national research and education network operator
- The Point of Presence (PoP) administration project involved managing network access points to ensure reliable and secure connectivity for research and education institutions

Responsibilities:

- Administering and maintaining network Points of Presence.
- Ensuring network security and availability.
- Implementing network management and monitoring solutions.

Technologies: Linux, FreeBSD, Cisco, Juniper, pfSense, openWRT

Researcher - CESNET (CESNET Research Projects)

Duration: 2000 — 2016
Summary: Conducted research in network management, security, and automation within CESNET, contributing to advancements in national research and education network technologies.
Responsibilities:

- Researching network design and security methodologies.
- Developing automation tools for network management.
- Collaborating on open-source projects related to network security.

Technologies: Perl, Python, C, XML, JSON, YAML, REST, MySQL, PostgreSQL, ElasticSearch

Organization committee - Silesian University (Silesian University Events)

Duration: 2011 — 2022
Summary: Participated in organizing academic and technical events at Silesian University in

Karvina, supporting knowledge sharing and community building.
Responsibilities:

- Planning and coordinating university events and conferences.
- Managing logistics and participant communications.

Network administrator - Silesian University in Opava (Silesian University Network Administration)

Duration: 1998 — 2018
Summary: Managed and maintained the university's network infrastructure to ensure reliable and secure connectivity for academic and administrative purposes.
Responsibilities:

- Administering network hardware and software.
- Implementing network security measures.
- Supporting users and troubleshooting network issues.

Technologies: Linux, Windows, Cisco, pfSense, openWRT

Teacher - Silesian University in Opava (Teaching at Silesian University in Opava)

Duration: 1998 — 2018
Summary: Provided instruction and mentorship in network management, security, and IT-related subjects to university students.
Responsibilities:

- Delivering lectures and practical labs.
- Developing course materials and curricula.
- Guiding student projects and research.

EDUCATION

- **PhD.**
  VSB - Technical University of Ostrava, Ostrava, Czech Republic
  2012 — 2017
- **Ing**
  VSB - Technical University of Ostrava, Ostrava, Czech Republic
  1993 — 1998