

Lukas Macura

Expert Cyber Security Specialist

SUMMARY

- Over 25 years of experience in network administration, VoIP technologies, and cybersecurity, with a strong focus on SIP server configuration and Asterisk implementation.
- Proficient in Python programming, Blockchain, Linux, and ElasticSearch, with hands-on expertise in developing embedded multiplatform SIP server solutions.
- Extensive academic background including a PhD in Information Technology
- Leadership roles as CTO and Head of Operations, driving security operations and software development in cybersecurity firms.
- Active contributor to open-source projects and academic conferences, with published work on Kamailio syntax generation and configuration parsing.

TECHNICAL SKILLS

Main Technical Skills	Python (2 yr.), Linea, Linux, VoIP (18 yr.), Configuration Policies (12 yr.)
Programming Languages	Python (2 yr.)
Security	AWS Security Groups (7 yr.)
Databases & Management Systems / ORM	AWS ElasticSearch
Amazon Web Services	AWS ElasticSearch, AWS Security Groups (7 yr.)
Mail / Network Protocols / Data transfer	CCNA (21 yr.), VoIP (18 yr.)
Deployment, CI/CD & Administration	Configuration Policies (12 yr.)
Platforms	LCDP (5 yr.), Microsoft Power Platform
Blockchain and Decentralized Software	Linea
Operating Systems	Linux
Methodologies, Paradigms and Patterns	OOP (8 yr.)
Other Technical Skills	Illustration and icons (25 yr.)

WORK EXPERIENCE

Cyber Security Specialist - CESNET, z.s.p.o (Cyber Security Specialist role at CESNET)

Duration: January 2024 - Present

Summary: Working as a Cyber Security Specialist at CESNET, a Czech national research and education network organization providing advanced network services and security solutions.

Responsibilities:

- Ensuring cybersecurity measures and protocols within CESNET's network infrastructure.
- Monitoring and responding to security incidents.
- Collaborating with teams to enhance network security.

Freelance Consultant (Self-employed Freelance Consultant)

Duration: November 2023 - Present

Summary: Providing freelance consulting services in IT and cybersecurity, leveraging extensive experience in network administration, VoIP, and security.

Responsibilities:

- Consulting clients on cybersecurity and network solutions.
- Delivering tailored IT services and advice.

Member Of The Board Of Advisors, Developer (Lethean)

Duration: January 2018 - November 2023

Summary: Contributed as a board advisor and developer to Lethean, a privacy-focused cryptocurrency project aimed at providing secure and anonymous transactions.

Responsibilities:

- Advising on project development and strategy.
- Developing software components related to blockchain and privacy technologies.

CTO - Foresight Cyber Ltd (Foresight Cyber Ltd)

Duration: July 2017 - November 2023

Summary: Chief Technology Officer at Foresight Cyber Ltd, a company specializing in cybersecurity solutions and services.

Responsibilities:

- Leading technology strategy and development.
- Overseeing cybersecurity projects and operations.
- Managing technical teams and innovation.

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

Duration: January 2017 - December 2018

Summary: Head of Operations and CTO at Jirasek Security Operations, a company focused on security operations and cybersecurity services.

Responsibilities:

- Managing operational and technical aspects of the company.
- Implementing security solutions and overseeing projects.



Teacher and IT specialist - Silesian University in Opava (Teaching and IT specialist at Silesian University in Opava)

Duration: 2002 - Present

Summary: Teaching and managing student projects in IT and networking, including CCNA instruction and organizing conferences on open-source network solutions.

Responsibilities:

- Teaching courses including CCNA.
- Managing student projects.
- Organizing and participating in professional conferences on open-source network solutions.

Network administrator, Network specialist, VoIP specialist - Silesian University in Opava (Network administration and VoIP specialist role)

Duration: 1998 - November 2023

Summary: Responsible for network administration and VoIP services at Silesian University in Opava, ensuring reliable network infrastructure and communication services.

Responsibilities:

- Maintaining and administering university network infrastructure.
- Implementing and supporting VoIP solutions.

Technologies: VoIP, Network administration

Co-Owner - Sauna a pohodárna Lipka Vělopolí (Sauna a pohodárna Lipka)

Duration: March 2016 - Present

Summary: Co-owner of a beautiful spa located in the foothills of Beskydy, providing wellness and relaxation services.

Responsibilities:

- Managing business operations.
- Overseeing service quality and customer experience.

PhD Student - VSB Technical University of Ostrava (PhD research at VSB Technical University of Ostrava)

Duration: May 2012 - May 2017

Summary: PhD research focused on the design of multimedia configuration systems, practical development of VoIP platforms, and multi-criteria network data analysis.

Responsibilities:

- Conducting research on multimedia and VoIP systems.
- Developing VoIP platforms and analyzing network data.

Technologies: VoIP, Multimedia systems, Network data analysis

Multimedia and VoIP team member - CESNET (Multimedia and VoIP team at CESNET)

Duration: February 2005 - February 2017

Summary: Worked on Asterisk implementation and configuration, SIP server configuration,



and participated in academic discussions and conferences about VoIP technologies.

Responsibilities:

- Implementing and configuring Asterisk and SIP servers.
- Participating in academic seminars and conferences on VoIP.

Technologies: Asterisk, SIP, VoIP

Chef developer - Phonyx (Phonyx VoIP services development)

Duration: January 2004 - January 2012

Summary: Lead developer for Phonyx, focusing on Asterisk and OpenSIPS implementation, VoIP services, and SQL programming to support telecommunication solutions.

Responsibilities:

- Developing and implementing VoIP services using Asterisk and OpenSIPS.
- SQL programming and development planning.

Technologies: Asterisk, OpenSIPS, SQL, VoIP

External lector - CZ.NIC, z.s.p.o. (Practical VoIP configuration course)

Duration: 2009 - July 2010

Summary:

- Provided external lectures on practical VoIP configuration for CZ
- NIC, the organization responsible for the
- cz domain and internet infrastructure in the Czech Republic

Responsibilities:

- Delivering practical VoIP configuration training.

Technologies: VoIP

Developer (HDD Daemon project)

Duration: 1990 - 1993

Summary: Developed a small project to interconnect Atari ST/STE and PC using a parallel cable connection, programming both sides in assembler.

Responsibilities:

- Developing communication software for Atari and PC.
- Programming in assembler for both platforms.

Technologies: Assembler

EDUCATION

- **Technical University of Ostrava**
PhD, Information Technology
2012 - 2017
- **VSB - Technical University of Ostrava**
Ing., Electronics and Telecommunications
1993 - 1998
- **Stredni odborné učiliště Energetické Elektroniky**
1989 - 1993



CERTIFICATION

- ElasticSearch
- Skybox Certified Administrator

