

Luca Volonterio

Cybersecurity Researcher | Security-by-Design Specialist

📍 Brussels, Belgium 🇮🇹 Italian (EU Citizen) ✉ volonterioluca@gmail.com

in [linkedin.com/in/luca-volonterio](https://www.linkedin.com/in/luca-volonterio) 🐙 github.com/l1uk 🌐 Portfolio

Professional Profile

Computer Science Graduate from Italy, 23 years old, with 1.5 years of experience in Full Stack Development and currently pursuing an MSc in Cybersecurity. Strong background in low-level programming (C, C++), cryptographic principles, and secure software development. Was awarded a full scholarship for the CYBERUS Master's program, ranking in the top 5% of applicants.

Seeking a five-month Cybersecurity Internship starting February-March 2026 in security research, product security, or security-by-design roles. Particularly interested in positions involving cryptographic research, secure architecture design, and advanced security technologies that address future security challenges.

Education

Université Libre de Bruxelles (ULB)

Master CYBERUS in Cybersecurity

Brussels, Belgium

Sept 2025 – Feb 2026

- **Advanced Cybersecurity Courses** : Mobile and Wireless Network Security, Embedded Systems Security, Digital Forensics and Reverse Engineering, Cryptanalysis, Machine Learning Security
- **Academic Excellence** : Awarded full Erasmus Mundus scholarship - ranking in the top 5% of international applicants

Université Bretagne Sud (UBS)

Master CYBERUS in Cybersecurity

Brittany, France

Sept 2024 – Jul 2025

- **Cybersecurity Fundamental Subjects** : Cryptology, Penetration Testing, Secure Programming, Security by Design, Risk Analysis and Management, Network Security, Operating Systems Security
- **Contact Person** : [Guy Gogniat](#) (Associate Professor & Program Coordinator)

Tallin University of Technology (TalTech)

The Cyberlandscape: Cyberthreats and Cyberactors (Winter School)

Tallin, Estonia

Jan 2025

- **Curriculum Highlights**: Explored critical domains including Cyber Threat Intelligence, Incident Handling, and Cyber-Physical Systems security. Visited the NATO Cooperative Cyber Defence Centre of Excellence (CCDCOE) and the TalTech Estonian Maritime Academy.
- **Legal & Regulatory Frameworks**: Analyzed the intersection of International Law and cybersecurity, including emerging standards like the EU's Cyber Resilience Act and industry frameworks such as NIST.

Università degli Studi dell'Insubria

Bachelor of Science in Computer Science

Lombardy, Italy

Sept 2021 – Jul 2024

- **Final Grade** : 110/110 cum laude (Highest Honors)
- **Security Relevant Courses** : Computer Architecture, Operating Systems, Networks, Computational Theory
- **Contact Person** : [Mauro Ferrari](#) (Head of Department of Theoretical and Applied Sciences)

Ostbayerische Technische Hochschule Amberg-Weiden

Exchange Year in Digital Technology Management

Bavaria, Germany

Sept 2022 – Sept 2023

- **Security-Focused Courses** : Secure Network Management, Advanced C++, Machine Learning, Cloud Technologies
- **Practical Experience** : Hands-on experience with SPLUNK SIEM and the Scapy framework for network packet analysis

Professional Experience

Research Intern

Babeş-Bolyai University

Remote

Apr 2025 – Jun 2025

- Researched and developed a novel Intrusion Detection System (IDS) for routers based on Graph Attention Networks (GATs)
- Analyzed network traffic as graphs to identify anomalies and improve detection accuracy compared to traditional methods, applying machine learning techniques to cybersecurity through real-time network analysis

Intern
ALTEN

Milan, Italy
Feb 2024 – Jun 2024

- Developed an AI-based bot capable of analyzing and resolving service tickets, bachelor thesis titled **AI-Driven Bot Implementation for Process Automation: Towards Autonomous Control**
- Implemented Robotic Process Automation for IT Infrastructure Management, learned about the ITIL framework and enterprise IT Service Management

Teacher
Kodland

Remote May 2023 –
May 2024

- Taught Python and Web Development courses to international students, developing leadership and mentoring skills
- Provided personal guidance and feedback to students on programming and problem-solving

Full Stack Developer
WebRatio

Milan, Italy
Jun 2021 – Sep 2022

- Built and maintained agile-designed Java applications and SQL databases serving 100-1000 users
- Participated in requirements and solution engineering, learned about software engineering and cloud solutions
- Contact : [Massimo La Rosa](#) (Service Director)

Tools & Technologies

- **Security Tools** : SPLUNK SIEM, Scapy, Network Analysis Tools
- **Development Tools** : Git, Docker, AWS, Selenium WebDriver, AWS
- **Machine Learning** : PyTorch, TensorFlow, experience with Graph Attention Networks
- **Databases** : SQL (MySQL, PostgreSQL), Database Security
- **Programming languages**: C, C++, Java, Python, Scala, Javascript

Additional Skills and Interests

Professional Skills

- Analytical Thinking and Big Picture Vision
- International Collaboration
- Strong cross-cultural communication skills

Languages

- Fluent in **Italian(C2)**, **English (C1)**, **Spanish(C1)**, and knowledgeable in **German(A2)** and **French(B2)**

Personal Interests

- Curious and creative individual with a lifelong love for music - classical piano, performing with orchestras, and music production
- Enjoys traveling, swimming, and immersing myself in cybersecurity challenges
- Active participation in Capture The Flag (CTF) competitions to sharpen practical security skills
- Always keen on learning new things and exploring ways to combine technical skills with creative passions