Luca Volonterio

Cybersecurity Researcher | Security-by-Design Specialist

 Brussels, Belgium   Italian (EU Citizen)   volonterioluca@gmail.com

in 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) Brussels, Belgium
Master CYBERUS in Cybersecurity 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) Brittany, France
Master CYBERUS in Cybersecurity 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)

Università degli Studi dell'Insubria Lombardy, Italy
Bachelor of Science in Computer Science 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 Bavaria, Germany
Exchange Year in Digital Technology Management Sept 2022 – Sept 2023

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

Professional Experience

Research Intern Remote
Babeș-Bolyai University 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 learing techniques to cybersecurity through real-time network analysis

Intern Milan, Italy
ALTEN 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   Remote May 2023 –
Kodland☑   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   Milan, Italy
WebRatio☑   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