Elia Innocenti

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Summary _____

Computer Engineer, currently completing a Master's in Cybersecurity Engineering. Passionate about addressing complex digital security challenges, with interests in system and network security, threat detection and intelligence, ethical hacking, security monitoring, and strategic use of informations and analytics. Analytical thinker with strong collaborative skills, effective workload prioritization, and continuous learning mindset. Music lover and outdoor enthusiast, with a keen interest in hiking and alpinism. During my academic journey I've completed a variety of hands-on **projects**, each of which can be found on my • Github.

Education _

MEng Politecnico di Torino, Cybersecurity Engineering

Sept 2024 - Present

• English-taught master's program compatible with ECSO's curriculum standards

BEng Università degli Studi di Firenze, Computer Engineering

Sept 2021 - Sept 2024

• Bachelor's Thesis, topics: Computer Vision, Deep Learning, Edge Computing

Experience _

Member of Mu Nu Chapter of IEEE-Eta Kappa Nu, Merit-based IEEE's Honor Society

Apr 2025 - Present

- Orchestrated STEM events and hackathons, driving technical innovation and student engagement
- Cultivated and managed partnerships with tech companies (ARM, NXP, STMicroelectronics, and more)
- Developed advanced project management and stakeholder coordination skills

Volunteer Youth Leader and Educator, Local Summer Camps

About 10 years

· Led the planning and logistics, mentored junior youth leaders in activity planning and group coordination

Some Projects _____

- Service Mesh Research, @ PoliTo
 - Analysis of service mesh architectures and security
 - Microservices, Distributed Systems, Cloud Security
- SSH Shell Attacks Analysis, @ PoliTo
 - ML classification of 230k SSH attacks (honeypot data)
 - Machine Learning, Data Analysis, Pattern Recognition

- Secure Timeout System on NXP board, @ PoliTo
 - QEMU emulation with FreeRTOS integration
 - Embedded Systems, Real-time Operating Systems
- ReinHerit Smart Tourism, @ UniFi
 - Android app for monument object detection
 - Computer Vision, Mobile Development, Deep Learning

Skills and Technologies _____

Programming and Markup Languages: C/C++, Python, Java, JavaScript, SQL, LaTeX, Markdown, Bash/Shell, Assembly, Proverif

Technologies and Tools: OS X, Linux, Jupyter Notebook, Git, Github, Docker, Kali Linux, Metasploit, openssl, nmap, Wireshark

Soft Skills: Analytical Thinking, Problem Solving, Teamwork and Collaboration, Communication, Leadership, Eclecticism, Continuous Learning, Organizational skills, Workload Prioritization

Licenses and Certifications _____

Languages _____

GNU / Linux Advanced

Italian: Native proficiency

English: Professional working proficiency (FCE)

Politecnico di Torino

Certificate in English B2 First (FCE)

Cambridge University Press & Assessment