

Samuele Bella

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EDUCATION

- **Master's degree in Cybersecurity** 2023 - Current
Università degli Studi La Sapienza Rome, Italy
- **Bachelor's degree in Computer Science** 2020-2023
Università degli Studi La Sapienza Rome, Italy
 - Grade: 105/110
- **High School Degree** 2014-2020
Liceo Scientifico Antonio Labriola Rome, Italy

PROJECTS

- **Practical Network Defense Laboratory** 03/2024 - 06/2024
Tools: OpenVPN, Proxmox, OPNSense Firewall, Syslog, Graylog, Greenbone, SSH
 - Built, setup and configured a virtual network hosted on proxmox.
 - Implemented a DMZ, a main firewall and an internal firewall with OPNsense.
 - Configured a Road Warrior tunnel with OpenVPN and an internal tunnel with IPSec.
 - Hardened the network by applying various security policies to Management, Control and Data Planes.
 - Setup a Graylog SIEM host, a Greenbone Vulnerability Management System and a Fail2Ban NIPS with an SSH Jail.
- **JSFormGrabbing** 06/2023 - 10/2023
Tools: HTML, CSS, JS, NodeJS
 - Mock website built for my bachelor's thesis that was used as a proof-of-concept for a Man-in-the-Browser attack. The site implements malicious Javascript code which sends the credentials that have been inserted in a form to a remote server controlled by the attacker.
- **Malware Detection with malware images using CNN techniques** 05/2023 - 08/2023
Tools: Pytorch, Flet
 - Developed a Malware Detection System (MDS) able to provide a significant contribution to defense against malicious attacks.
 - While a traditional MDS uses feature extraction ML algorithms, the project aimed to develop a CNN which was trained to classify an executable file as malware or benign.

EXTRACURRICULAR ACTIVITIES

- **CyberChallenge 2025:** Currently participating in the 2025 edition of Cyberchallenge, an international training program organized by the Cybersecurity National Lab.
- **CyberX - Mind4Future 2024:** Participated in the 2024 edition of CyberX - Mind4Future, an experiential training program organized by Cyber4.0 with Leonardo. I reached the final stage, which consisted of performing a penetration test on a virtual machine hosted by the organizers and producing a formal report.

SKILLS

- **Programming Languages:** Python, C, Java
- **Web Technologies:** HTML, CSS, JavaScript, Node.js, TypeScript
- **Networking:** OpenVPN, Proxmox, OPNSense Firewall, Syslog, Graylog, Greenbone, SSH
- **Security Related:** AFL++, IDA, GDB

LANGUAGES

- **Italian:** Native
- **English:** CEFR C1, IELTS 7.0