

Emanuele Gatto

Summary

I am a recent graduate in Computer Science and Control Engineering, now specializing in Cybersecurity. I'm really passionate about the choices I made and always interested in exploring new topics. I'm steadily working on my constancy, tenacity and determination to improve my results, continuously deepening my studies. I strongly believe in the importance of teamwork and in getting inspirations even from outside the world of IT.

Education

Sapienza Università di Roma, Master's Degree in Cybersecurity Sept 2023 – Exp. Oct 2025

- Current GPA: 3.8/4.0
- Attending courses on Ethical Hacking, Cryptography, Distributed Systems and more.

Sapienza Università di Roma, Bachelor's Degree in Computer Engineering Sept 2020 – Oct 2023

- GPA: 3.8/4.0. **Fianl grade:** 110 Magna cum laude.
- **Honours Programme Student:** Among the six students selected to be part of the Sapienza Honours Program.
- Member of the **CTF team** TheRomanXploit.

CyberChallenge.IT, a training program for university and high school students. Feb 2024 – July 2024

- One of the six member of the Sapienza finalists team.
- Winner of the final **National competition** 2024 edition.
- Attended lessons about Cryptography, Reverse Engineering, Binary Exploitation and Web Security.

Cyber Boot Camp, a training program for university and high school students. Oct 2023 – Nov 2023

- 4th position out of 160 at Cyber Boot Camp assessments, earning a spot in a Cyber Security course.

Liceo Scientifico Nomentano Sept 2015 – June 2020

- High School Diploma in scientific studies.

Experience

Honours Programme Course, Sapienza, Rome, Italy Apr 2022 – Mar 2023

- I engaged in research activities related to **Cyber Security**, focusing on the reconstruction of C2 Servers for Remote Access Trojans through Symbolic Execution techniques, utilizing **S2E**.

Apprenticeship, Research activities at Sapienza University of Rome. Mar 2023 – Oct 2023

- Cybersecurity research activities, I optimized the IOT-AFL tool for fuzzing IOT device firmware, a fork of the existing project: **Firm-AFL**.
- My work involved in-depth fuzzing experiments on HTTP servers, unveiling intriguing behaviors.

Projects

Atoms July 2022 – Ongoing

- A graphic simulator of interactions between atomic particles implemented in Rust from scratch.

Achievements

CyberChallenge.IT (Turin June 2024): 1st place in the Attack/Defense CTF National competition.

CyberChallenge.IT (Rome May 2024): 4th place in the Jeopardy CTF Local competition at Sapienza.

Skills

Programming Languages: C++, C, Java, C#, SQL, JavaScript, Rust, Python, Assembly, PHP

Languages: Italian, English.