Marco **Negro**

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Summary

I am a Researcher and Computer Engineering student, and I previously worked as a Penetration Tester for several years. My research focuses on the intersection of System Security and Program Analysis. I am currently exploring fuzzing techniques to detect side-channel vulnerabilities and microarchitectural leaks. Additionally, I am the founder of the 'Meethack Torino' hackerspace.

Work Experience

IMDEA Software   *Madrid, Spain*
RESEARCH INTERN   *Sep. 2024 - Present*
Advisor: Prof. Marco Guarnieri

SK IT Cyber Security   *Turin, Italy*
CYBER SECURITY SPECIALIST (PENETRATION TESTER)   *Jen. 2021 - Aug. 2024*
Worked with leading global and European companies in IoT manufacturing, networking devices, automotive, telecom, and banking, providing top-tier security evaluations. Conducted in-depth research and penetration tests with a strong focus on IoT security, alongside comprehensive assessments in network, infrastructure, Web, and Mobile AppSec (WAPT).

INTERN   *Oct. 2020 - Dec.2020*
Researched emerging threats and trends while assisting in penetration tests alongside senior team members.

Education

Polytechnic University of Turin   *Turin, Italy*
MASTER'S DEGREE, COMPUTER ENGINEERING (PART-TIME)   *Set. 2021 - Present*
Current CGPA 27.78/30

Polytechnic University of Turin   *Turin, Italy*
BACHELOR'S DEGREE - COMPUTER ENGINEERING   *Set. 2016 - Oct. 2021*
Final Grade 89/110

Other Education

National University of Singapore   *Singapore, Singapore*
FUZZING AND SOFTWARE SECURITY SUMMER SCHOOL   *May 2024*

The Hong Kong Polytechnic University   *Hong Kong S.A.R.*
INTERNATIONAL RESEARCH SUMMER SCHOOL   *Jul. 2024*

Honors & Awards

PUBLICLY DISCLOSED VULNERABILITIES

CVE-2024-9054 (Remote Code Execution), **CVE-2024-7801** (Unauthenticated SQL Injection), **CVE-2024-43687** (Stored XSS), **CVE-2024-43686** (Reflected XSS), **CVE-2024-43684** (Cross-Site Request Forgery), **CVE-2024-43683** (Open Redirect), **CVE-2024-43685** (Session Token Fixation)

SCHOLARSHIP

2024   **ACM**, Fuzzing and Software Security Summer School (NUS)
2024   **The Hong Kong Polytechnic University**, 10000 HKD allowance, International Research Summer School

Extracurricular Activities

Meethack Torino Hackerspace   *Turin, Italy*
FOUNDER & ORGANIZER   *Jen. 2019 - Present*
- Organize and guide technical campaigns on 0-day vulnerability research and N-day development
- Train participants on various security topics through CTF competitions and talks
- Organize and manage events, website, public relations, and internal administration

Projects & Software Artifacts

- **Control-Flow Integrity with Pointer Authentication**
  A novel PAC-SW solution. A software implementation based on a GCC plug-in and a linux kernel module that emulates Control-Flow Integrity with ARM Pointer Authentication on Intel x86-64 architecture.

Languages

Native **Italian**
IELTS 6.5 **English**

Volunteering

San Secondo Parish   *Givoletto, Italy*

Children Educator   *2010-2016*