

Marco Negro

✉ s303400@studenti.polito.it | 🏠 marco-negro.com | 📄 marco-negro-75767b152

Summary

I am a Researcher and Computer Engineering student, and I previously worked as a Penetration Tester for several years. My research interest is in System Security. Currently, I am focused on software/hardware interfaces, where I am 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 Institute

RESEARCH INTERN

Advisor: Prof. Marco Guarnieri

Madrid, Spain

Sep. 2024 - Present

SK IT Cyber Security

CYBER SECURITY SPECIALIST (PENETRATION TESTER)

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).

Turin, Italy

Jan. 2021 - Aug. 2024

INTERN

Researched emerging threats and trends while assisting in penetration tests alongside senior team members.

Oct. 2020 - Dec. 2020

Education

Polytechnic University of Turin

MASTER'S DEGREE, COMPUTER ENGINEERING (PART-TIME)

CFU 128/120, Current CGPA 27.78/30

Turin, Italy

Set. 2021 - Present

Polytechnic University of Turin

BACHELOR'S DEGREE - COMPUTER ENGINEERING

CFU 184/180, Final Grade 89/110

Turin, Italy

Set. 2016 - Oct. 2021

Other Education

National University of Singapore

FUZZING AND SOFTWARE SECURITY SUMMER SCHOOL

Singapore, Singapore

May 2024

The Hong Kong Polytechnic University

INTERNATIONAL RESEARCH SUMMER SCHOOL

Hong Kong S.A.R.

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**, tuition covered, 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

FOUNDER & ORGANIZER

- 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

Turin, Italy

Jen. 2019 - Present

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

CHILDREN EDUCATOR

Givoletto, Italy

2010-2016