



Tiziano Colagrossi

WORK EXPERIENCE

03/2023 – 06/2023

CYBER CHALLENGE SOFTWARE SECURITY INSTRUCTOR (PWN, REV) CINI (CONSORZIO INTERUNIVERSITARIO NAZIONALE PER L'INFORMATICA)

EDUCATION AND TRAINING

01/2020 – 10/2023

CYBERSECURITY La Sapienza, University Of Rome

Final grade 110 | **Thesis** Enumetric: Pervasive Fuzzing of Enumerated Program-state Variables

2016 – 2019

INGEGNERIA INFORMATICA E AUTOMATICA La Sapienza, University Of Rome

DIGITAL SKILLS

Binary exploitation [stackland] and reversing

Exploit development | Egghunting | Stack pivoting | one-gadget | ret2csu | ret2dlresolve | Format string vulnerability (arbitrary read/write and stack leak) | ret2plt | ret2libc | Program Misuse | ret2win | ASLR bypass | Shellcoding | SROP | ROP | Canary bypass (Leak/Bruteforce/Tampering) | PIE bypass | Ghidra scripting (basic) | IDA, Ghidra, Radare2/Cutter

Binary exploitation [heapland]

House-of-force | House of Einherjar | House-of-spirit | Unsorted-bin attack | Safe-unlink | Unsafe-unlink | Overlapping chunks | Fastbin-dup | Tcache Poisoning | Double-Free | Use-After-Free | Heap data structures

Programming and Markup languages

C++ | Python | C | LLVM-IR | C# | Assembly (Intel, AT&T, ARM, MIPS) | LLVM | Flutter Dart | Json | SQL | Rust (basic) | Git | OOP | Java | HTML | CSS

Misc

Machine Learning | Malware Analysis | Virtualization | Biometric System | pfsense | Linux Kernel Module | Linux Kernel | Linux | Fuzzing | AFL++ | SymCC | Klee | Angr

Social Skills

Passionate | Flexibility | Reliability | Critical and analytical thinking | Organization and planning skill | Team-work oriented

LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C2	B2	B1	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● **ADDITIONAL INFORMATION**

PROJECTS

2020 – CURRENT

Co-Founder of Hackappatoi CTF team Academic team: [MSc in Cybersecurity, Sapienza University of Rome, Italy](#)

Website: <https://hackappatoi.github.io/>

Ctftime page: <https://ctftime.org/team/140428>

HONOURS AND AWARDS

2018

Winning team of Google Workshop – Organized by Google and Tel Aviv University