

Alessandro Ravizzotti

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Profile

Research Associate in Cyber Security at NEC Laboratories Europe. Alumni at Edinburgh Napier University after graduating with an MSc with Distinction in Advanced Security & Digital Forensics.

Languages

Italian | English | Python | Javascript | HTML | CSS | Node.js | jQuery | C | Go | Java | Express | PHP | Mysql | PostgreSQL

Tools

BurpSuite | Wireshark | AXIOM | Autopsy | Ghidra | GDB | GIMP | nmap | metasploit | Cisco TCL | Forensics Tools

Projects

[MHATOD](#) | 2024

MSc dissertation scripts used to gather data regarding ransomware. (Python)

[Password Manager](#) | 2024

The fourth version of my local password manager. (Python)

[Attack on A5/1 cypher](#) | 2022

BSc dissertation - attack on the GSM cipher A5/1. (C)

[XSS-Security](#) | 2021

Web app that tests websites for XSS vulnerabilities. (Node.js)

Awards & Certification

[Try Hack Me](#) | Oct 2024

Top 8%

[CyberChallenge](#) | 2022

[Academic Honours](#) | 2016

Work & Experiences

Research Associate in Cyber Security | NEC Laboratories Europe, Heidelberg, Germany (Jan 2025 - Present)

Computer Penetration Testing Teaching Assistant | Edinburgh Napier University, UK (Jan 2024 - Jun 2024)

By being at the top of my class in the MSc module of Penetration Testing, I was offered the opportunity to work as a teaching assistant. This let me go deeper in research and expand my knowledge about topics related to offensive security.

High School Computer Science Teacher | Novara, Italy (Oct 2022 - Jan 2023)

I taught computer science to students from the ages of 14 to 19 years old in two schools: "IIS Nervi" and "Scientific High School Carlo Alberto".

CyberChallenge | University of Milan, Italy (Mar 2022 - Jul 2022)

The CyberChallenge is the first Italian training program in cyber security for undergraduate students. I qualified among the six University of Milan team members who participated in the national competition, achieving the seventh position. I worked independently and in a team, which improved my knowledge and skills in offensive and defensive cyber security.

Education

MSc with Distinction in Advanced Security & Digital Forensics | Edinburgh Napier University, UK (Jan 2023 - May 2024)

The MSc is certified by the NCSC. I was at the top of my class in the modules: Penetration Testing, Cryptography and Host-Based Forensics. During the MSc, I have researched multiple areas of cyber security like Post-Quantum Cryptography, SQL Injection, Ransomware Behaviour & Incident Response and Digital Forensics.

Dissertation: "[Behavioural Analysis of Current Evolution Ransomware Attack Exfiltration Methods](#)".

BSc Computer Science | University of Milan, Italy (Oct 2018 - Feb 2022)

Dissertation: "[Studio e analisi di cifrari utilizzati in ambito mobile](#)".

High School Diploma | Liceo Scientifico A. Antonelli, Italy (Set 2013 - Jun 2018)

High School Diploma | Leavitt Area High School, US (Set 2016 - Jun 2017)

During the school year, I lived as an exchange student and joined the Robotics Club which allowed me to learn the design, programming and construction of a competition robot. It allowed my team and I to overcome the preliminary stages up to qualification for the national matches.