Alessandro Ravizzotti

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Development

Python | PyTorch | Javascript | Node.js | jQuery | C | Go | Java | Express | PHP

Databases

MySQL | PostgreSQL

Markup & Styling

LaTex | HTML | CSS

Tools

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

Languages

Italian | English
Learning German.

Projects ○

KeyScan | PasswordGeneratorChromeExtension | MHATOD | A51-attack | XSS-Security

Work & Experiences

Research Associate in Cyber Security | *NEC Laboratories Europe, Germany* (Jan. 2025 - Aug. 2025)
Researched cutting-edge security threats in machine learning, focusing on adversarial examples. Conducted an extensive literature review to identify open challenges and limitations in current defences. Designed innovative defence strategies and developed a proof-of-concept, advancing knowledge in secure ML systems. Findings will contribute to a forthcoming publication.

Computer Penetration Testing Teaching Assistant | *Edinburgh Napier University, UK* (Jan. 2024 - June 2024)
Selected as a teaching assistant for the MSc Penetration Testing module after ranking top of the class. In this role, I guided students through offensive security labs, explained complex concepts, and provided hands-on support. The experience enhanced my communication and mentoring skills while reinforcing and expanding my own technical expertise.

High School Computer Science Teacher | *Novara, Italy* (Oct. 2022 - Jan. 2023)
Taught computer science to high school students (ages 14–19), developing their technical skills and encouraging interest in the subject.

CyberChallenge | *University of Milan, Italy* (Mar. 2022 - July 2022)
The CyberChallenge is the first Italian cybersecurity training program for undergraduate students. Selected as one of six University of Milan representatives in a national cybersecurity competition, achieving 7th place. Gained hands-on experience in both offensive and defensive security through individual and team CTF. Certification.

Education

MSc with Distinction in Advanced Security & Digital Forensics | *Edinburgh Napier University, UK* (Jan. 2023 - May 2024)
MSc certified by the NCSC; ranked top of the class in Penetration Testing, Cryptography, and Host-Based Forensics. Conducted research across multiple cybersecurity areas, including Post-Quantum Cryptography, SQL Injection, Incident Response, and Digital Forensics. Dissertation: "*Behavioural Analysis of Current Evolution Ransomware Attack Exfiltration Methods*". Github. ○

BSc Computer Science | *University of Milan, Italy* (Oct. 2018 - Feb. 2022)
Areas of interest: Cryptography, IT Security, Biometrics, Web Programming, and Algorithms. Dissertation: "*Studio e analisi di cifrari utilizzati in ambito mobile*". Github. ○

High School Diploma | *Liceo Scientifico A. Antonelli, Italy* (Sept. 2013 - June 2018)

High School Diploma | *Leavitt Area High School, Maine, US* (Sept. 2016 - June 2017)
As an exchange student, I joined the Robotics Club, where I helped design, program, and build a competition robot that advanced my team to the national qualifiers. Honours.