

Alessandro Ravizzotti

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DESCRIPTION

Student at Edinburgh Napier University for the MSc Advanced Security & Digital Forensics. I am passionate about cybersecurity and enjoy doing CTF to improve my offensive skills. I am always excited to start new projects.

WORK / EXPERIENCES

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

I taught students from the age 14 to 19 years old in two schools: "IIS Nervi" and "Scientific High School Carlo Alberto". The average exam scores increased considerably compared to the pre-tests in every class. There was an evident rise in the interest in the subject by the students.

CyberChallenge - University of Milan, Italy (Mar 2022 - Jul 2022) - [Certificate](#)

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

EDUCATION

MSc Advanced Security & Digital Forensics - Edinburgh Napier University, UK (Jan 2023 - Jun 2024)

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

Bachelor's Degree dissertation: "[Studio e analisi di cifrari utilizzati in ambito mobile](#)" (Italian only).

High School Diploma - Scientific High School A. Antonelli, Italy (Set 2013 - Jun 2018)

High School Diploma - Leavitt Area High School, Maine, USA (Set 2016 - Jun 2017)

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

PROJECTS

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

Part of my [Bachelor's degree dissertation](#). Practical attack on the cypher A5/1, used in GSM connections, according to the theoretical attack of Biham and Dunkelman, with the use of the techniques of the researcher Golic. (C)

XSS-Security - 2021 - [GitHub](#) - [Italian Report](#)

I designed and developed a web app that tries to find XSS vulnerabilities in other websites. (Node.js)

Local Password Manager - 2021 - [GitHub](#)

I designed and developed a local password manager with GUI. Encryption methods: AES and SHA-256. (Java, JavaFX)

CERTIFICATION / HONOURS

Academic honours from the "State Senate Majority Leader" Maine (USA) - 2016 - [Honours Letter](#)

SKILLS

- **Programming languages:** C | Go | Java | Python | Bash
- **Web Development:** HTML5 | CSS3 | Javascript | PHP | jQuery | Node.js | Express
- **Database:** Mysql | PostgreSQL
- **Tools:** BurpSuite | Wireshark | Ghidra | GDB | GIMP
- **Languages:** Italian (first language) | English