

# Alessandro Ravizzotti

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## PROFILE / DESCRIPTION

I am passionate about cybersecurity and I enjoy doing CTF to improve my offensive skills. To keep up to date, I learn many things on my own by reading news and books and watching videos about security and vulnerabilities. I am always excited to start new projects that I put a lot of effort into.

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## EDUCATION AND TRAINING

### **CyberChallenge** - Milan, Italy (2022)

The CyberChallenge is the first Italian training program in cyber security for undergraduate students. I qualified among the 20 students who were able to attend the lessons and participate in the project under the University of Milan. After the training period, I passed the selection, qualifying among the six members of the UNIMI team who will participate in the national competition. Through the CyberChallenge, I have improved my knowledge and skills in the field of cyber security, both offensive and defensive. I worked both independently and in a team, which made me develop skills such as clear communication, team programming, determination and personal responsibility.

### **University of Milano** - Bachelor's Degree in Computer Science - Milan, Italy (2018 - 2022)

Bachelor's Degree dissertation: "[Studio e analisi di cifrari utilizzati in ambito mobile](#)" (ITA only). Topics of interest: IT Security, Cryptography, Biometry, Web Programming and Algorithms.

### **Scientific High School A. Antonelli** - Diploma - Novara, Italy (2013 - 2018)

I have chosen the applied sciences path to have better preparation for scientific subjects.

### **Leavitt Area High School** - Diploma - Turner, Maine, USA (2016 - 2017)

During the school year, I lived as an exchange student, I put myself to the test, being in a completely different reality from mine. The most interesting subjects studied were Digital Graphic Design, using GIMP, and 3D Game Design, using UNITY with C#. I participated in various activities, both individual and group, including the Robotics Club which allowed me to learn design, programming and construction of a competition robot, developing the ability to work in a group with coordination between different sectors of design and problem-solving; the development of the project allowed me and my team to overcome various preliminary stages up to qualification for the national matches.

### **School-Work Project We Do FabLab** - Bellinzago Novarese, Italy (2017-2018)

During my experience at the laboratory, I had the opportunity to work as a collaborator carrying out various tasks and cooperating in the development of many projects. In particular, I learned to use 3D printers with related modelling software, vector design software and laser wood cutting machine.

**Study Holiday Abroad** - Winchester, UK (2016)

**Musical Summer Camp Organizer and Entertainer** - Vanzone, Italy (2012-2019)

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## PROJECTS AND ACTIVITIES

**Attack on A5/1 cipher** - 2022 - <https://github.com/itsraval/A51-attack>

The cipher A5/1 is used in GSM connections (2G network). The project has been implemented in C language, according to the theoretical attack of Biham and Dunkelman, with the use of the techniques of the researcher Golic. This is my bachelor's degree dissertation in Computer Science "[Studio e analisi di cifrari utilizzati in ambito mobile](#)" (ITA only).

**XSS-Security** - 2021 - <https://github.com/itsraval/XSS-Security>

XSS-Security is a web application created in NodeJS. Its task is to check if one or more web pages are vulnerable to Cross-Site-Scripting attacks. After scanning the websites, the app generates a report page where it shows the tests performed and any found vulnerabilities in the code of the tested web page. The user can decide to download all or only some reports in PDF format. There is also an information page where methods for minimizing XSS vulnerabilities are explained.

With this project, I learned to use the server-side javascript language and I improved my skills and knowledge about HTML and CSS, implementing them all by myself, without the use of templates.

Languages used: HTML, CSS, Javascript, NodeJS, Express

Report (Italian only): <https://github.com/itsraval/XSS-Security/blob/main/Relazione%20XSS-Security.pdf>

**Password Manager Locale** - 2021 - <https://github.com/itsraval/passwordManagerGUI>

I designed and programmed this application for personal needs, to try to test myself in the development of an application of medium complexity and in learning the use of the JavaFX library for the graphics implementation. This program allows you to locally save the passwords and pins of all your accounts; all data remains on your device and obviously, passwords and pins remain encrypted with AES and SHA-256.

Languages used: Java, JavaFX

Supported Operating System: Windows

**Streetcurity - LetsApp** - 2018 - <https://www.youtube.com/watch?v=6pUT7IHtp0U>

The LetsApp project consists of the design of a security-themed application. My team and I have decided to dedicate ourselves specifically to personal safety in dangerous conditions and to reporting emergency situations to the emergency numbers. Through this project, I have improved my skills in working in a team, brainstorming and front-end development of a mobile application.

**HIT** - 2017 - <https://youtu.be/EnZ27MMt8mo>

I personally made this android mobile game using UNITY and GIMP. Making the application required a lot of effort as, for the first time, I designed and fully developed both the front-end and the back-end of the application. I had to make lots of different textures with GIMP, learn the C# programming language and the interactions between UNITY and Android all by myself.

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## CERTIFICATION

**Academic honors from the "State Senate Majority Leader"** - 2016 - [File Link](#)

Letter of congratulations from the "State Senate Majority Leader" for academic honors regarding the academic year spent at Leavitt Area High School (Maine, USA).

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## PROGRAMMING LANGUAGES

- C
  - Go
  - Java
  - Python
  - Javascript
  - NodeJS
  - SQL
  - PHP
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## SOFT SKILLS

- Test myself with new challenge
  - Always positive
  - Ability to work in a team
  - Problem solving
  - On time in deadline
  - Dedicate
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## LANGUAGES

Native language: Italian  
Foreign language: English (Really good)

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