Alessandro Ravizzotti

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PROFILE / DESCRIPTION

I like different aspects of IT, including software and web programming, but I am more interested in cybersecurity. Many of the things I know I have learned on my own, reading, watching videos and finally putting them into practice through projects. I am always excited to start new projects that I put a lot of effort into.

EDUCATION AND TRAINING

University of Milano - Bachelor Degree - Milan, Italy (2018 - Now)

Bachelor's Degree in Computer Science. Topics of interest: IT Security, Cryptography, Biometry, Web Programming and Algorithms.

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

Applied Sciences option chosen to start studying computer science and have a broader and more in-depth teaching from a scientific point of view.

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 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 modeling 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)

PROJECTS AND ACTIVITIES

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 sites, the app generates a report page where it shows the tests performed and any vulnerabilities in the code of the tested web page. The user can decide to download all or only some reports in PDF format. In order to improve the user experience, the web app is fully responsive. 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
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. The data (encrypted with SHA-256 and AES) are understandable only to the user who knows the email and password to access the program.
Languages used: Java, JavaFX
Supported Operating System: Windows

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

The LetsApp project consists in 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 of 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.

CERTIFICATION

Onori Accademici da parte dello "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).

PROGRAMMING LANGUAGES

- C
- C#
- Go
- Java
- Python

WEB LANGUAGES

- HTML
- CSS
- Javascript
- PHP
- SQL

SOFT SKILLS

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

LANGUAGES

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

HOBBIES

In my free time I like to listen to music and podcasts, I like to play the guitar and I also like to run outside.