

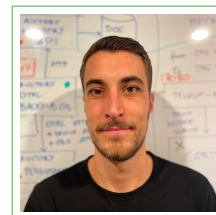
Carlo Ramponi

Curriculum Vitae

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Everything should be made as simple as possible, but not simpler. -Albert Einstein

Education

- 2021–2023 **Master Degree**, *Università degli studi di Trento*, Trento, *110 cum laude/110*.
Computer science, Cybersecurity
I did my thesis during an internship at Quarkslab, about *Diving into Starlink's User Terminal*.
- 2018–2021 **Bachelor Degree**, *Università degli studi di Trento*, Trento, *110 cum laude/110*.
Computer science
I did my thesis in collaboration with the Police of Trento, the goal was to analyze a counterfeit tachograph and find a way to easily detect that kind of modification during road inspections.
- 2013–2018 **High school degree**, *Istituto tecnico C. A. Pilati*, Cles, *97/100*.
High school degree in Information technology

Experience

Work experiences

- 2022–2023 **Front end developer**, *TxC2 s.r.l.*, Trento.
I was in charge of the development of the front end of a web application that lets students to watch lecture recordings in a smart way.
Check it out: <https://txc2.eu/>

Internships

- 2023 **Security researcher**, *Quarkslab*, Paris, France.
During my Internship at Quarkslab, I focused on analyzing the User Terminal of a satellite internet provider (Starlink). I employed reverse engineering techniques to understand its internal operations and to research possible vulnerabilities. I've also published a blog post about my research: <https://blog.quarkslab.com/starlink.html>
- 2020 **Mobile app developer**, *Fondazione Bruno Kessler*, Trento.
During 2020's summer I worked as an intern at FBK, I was assigned the ideation and creation of an open source mobile application that would help amateur volleyball coaches keeping track of training sessions.
Here is the link: <https://github.com/CarloRamponi/TrainingStats>
- 2017 **Mobile game developer**, Cles.
I joined a team with the goal of developing a cross platform Mobile game, we used cocos2d-x open source framework. The game is now available for download on both Google Play Store and Apple App Store [<https://drenlab.page.link/Drenlab>]. See Drenlab section.

2016 **Network administrator**, *Presidio informatico Cles*, Cles.

I joined the network administrator of the school.

Some activities:

- Reconfiguration of the School network (Windows server, domain, shared directories);
- Windows/Linux clients configuration.

Drenlab

2019–Present **Drenlab s.r.l.**

Drenlab is a start up that was created by me and a friend of mine with the aim of delivering the game we were developing and also other products like websites and apps.

Here is the website: <http://drenlab.com>

Here are some of our works: <https://onemoreday.io> (commissioned), <https://www.4drink.it> (commissioned), <https://hotelmenu.it>

Competitions

November **WPCTF**, *Würth Phoenix*, Bozen.

2023 I was part of the team that got the 2nd place in the second edition of the WPCTF.

November **WPCTF**, *Würth Phoenix*, Bozen.

2022 This was a classic Jeopardy style Capture the Flag, I was part of the team that got the 2nd place.

June 2020 **CyberChallenge**, *Università degli studi di Trento*, Trento.

During 2020's spring I attended the CyberChallenge lessons that lead to the local competition which I won. The competition consisted of several "challenges" in which I had to find a phrase (the flag) using cybersecurity skills in several fields. (e.g. software security, network security, ecc.)

November **NOI Hackathon SFScan Edition**, *NOI Techpark*, Bozen.

2019 My team won the Infominds challenge with a cross platform app: "Room Tracker" <http://hackathon.bz.it/project/roomtracker>, here is my profile: <http://hackathon.bz.it/user/carlo-ramponi>

Education experiences

2021-2022 **Cyberchallenge**, *Università degli studi di Trento*, Trento.

The year after I've completed my training at Cyberchallenge I joined the training team at University of Trento, where I was responsible for the laboratories on Reverse Engineering and Binary exploitation.

Fall 2021 **Tutor**, *Università degli studi di Trento*, Trento.

During fall 2021 I started my path as a tutor at University of Trento. I was responsible for the tutoring of Calculus 1 and Numerical Analysis.

Languages

Italian Mother-language

English B2

French A2

Technologies

Desktop C/C++, Java, Python, Rust

Scripting Bash, python

Server-side PHP, Nodejs, Docker, Kubernetes

Client-side Javascript, Typescript, React

Mobile Flutter (dart), Cocos2d-x (C++)

Security Reverse Engineering, Binary Exploitation, Cryptography, Hardware analysis, Fuzzing