

Christian Coduri

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coduric



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About me

My journey has been centered around **cybersecurity** and **computer engineering**, particularly delving into *cryptography* and *network security*. I have multi-year experience in coding languages like *Python*, *C*, and *Java*, as well as web development technologies such as *HTML*, *CSS*, *JavaScript*, *NodeJS*, *PHP* and *MySQL*.

Employment History

- Nov 2023 – Jan 2024 **External Collaborator**, PWNX s.r.l.
Responsible for the design and implementation of 10 cryptography laboratories, adopting a "Capture the Flag" style to enhance practical learning experiences.
- July 2019 – Sept 2019 **Waiter**, Ristorante La Baia, Cremia (CO).
- May 2019 – June 2019 **Intern**, SECAM spa, Sondrio (SO). As part of the school-work alternation program, contributed to tasks in the Data Processing Center.

Education

- 2023 – now **M.Sc. Computer Engineering: Cybersecurity**, Turin Polytechnic University.
Specialist track: *Cryptography expert*.
- 2020 – 2023 **B.Sc. Computer Systems and Networks Security**, University of Milan.
Thesis title: *Advanced Techniques of Visual Cryptography and Steganography for Sharing of Medical Images*.
Awarded: *110 cum laude*.
- 2015 – 2020 **High School Diploma in Computer Science**, ITIS E. Mattei.
Graduated with a score of *96/100*.

Training Courses

- Feb 2023 – May 2023 **CyberChallenge - Cybersec Training Program**, Cybersecurity National Lab.
Chosen as one of the top 20 students from the University of Milan to participate in the 2023 edition. Gained proficiency in utilizing various tools to identify and exploit vulnerabilities. Attended lessons about *Hardware Security*, *Cryptography*, *Web Security*, *Network Security*, and *Software Security*.

Language Certifications



- Jan 2024 **English: IELTS Academic Exam**, Overall Band Score: 7.5 / 9
CEFR Level: **C1**.

Additional Courses



- Apr 2023 **Low Poly Landscapes: Blender Bite Sized Course**, GameDev.tv.
- Feb 2023 **TerraTerra**, European Institute of Innovation for Sustainability & YouTube IT.
- Nov 2022 **International Cyber Conflicts**, The State University of New York.
Developed Skills: *Understanding of international cybersecurity policies, psychology, and sociopolitical factors that characterize attacks and attackers*.
- Feb 2021 **Apple iOS & Swift Development**, Udemy Course.

Projects



Personal Projects

- 2020 – now  **Get The Cookie.** A YouTube Channel with the goal of helping university and high school students understand computer science concepts (*in italian*). Achieved a total watch time of over 40,000 hours, demonstrating the project's significant impact and engagement. <https://www.youtube.com/GetTheCookie>.
- 2020 – 2021  **FitFocus.** An online fitness platform was developed, enabling users to manage their nutrition, track progress, and organize workout plans. Additionally, the platform provided trainers with the capability to oversee their clients' preparations by offering feedback, exchanging messages, and providing advice. Initially built on a *LAMP stack*, the project later transitioned its backend to *NodeJS* to achieve enhanced functionality and performance.

University Projects

- Dec 2023 – Jan 2024  **Embedded OS Customization.** Explored the complexities of embedded systems, gaining expertise in FreeRTOS on QEMU. Developed custom scheduling functionalities not included in the default operating system implementation, akin to creating a specialized "kernel module".
-  **DDoS Attacks Detection with Machine Learning.** Analyzing a dataset for benign and DDoS attacks, involving data exploration, supervised and unsupervised learning, and cluster explainability analysis.

Speeches and Conferences

- 2 Dec 2023  **Molecon 2023**, Attendee
- 17 May 2022  **Cybersecurity Introduction**, Speaker
Delivered a comprehensive introduction to cybersecurity at *ISIS Gino Luzzatto (VE)*, emphasizing key concepts and promoting awareness about online security.