Christian Coduri

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Employment History

Nov 2023 – May 2024 💼 **External Collaborator,** PWNX s.r.l., Remote
- Designed and implemented ten cryptography laboratories in *Python*, employing a "Capture the Flag" approach to enhance learning experiences.
- Developed more than thirty personalized one-on-one modules focused on Linux Security and Cryptography Theory for individualized learning.

Jul 2019 – Sep 2019 💼 **Waiter,** Ristorante La Baia, Cremia (CO).

May 2019 – Jun 2019 💼 **IT Intern,** SECAM s.p.a., Sondrio (SO).

Education

2023 – now 🎓 **M.Sc. Cybersecurity Engineering,** Polytechnic University of Turin.
- **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 (Sondrio).
- Graduated with a score of *96/100.*

Language Certifications

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

Additional Courses

Oct 2024 – Jan 2025 🎓 **Connected and Automated Vehicles,** Challenge@PoliTO by Stellantis.
Collaborated in a multidisciplinary team to explore challenges related to future Autonomous Vehicles and V2X technology. My role focused on identifying potential cybersecurity vulnerabilities and exploring theoretical solutions to ensure data integrity, privacy, and secure communication.

Feb 2023 – May 2023 🎓 **CyberChallenge - Cybersec Training Program,** Cybersecurity National Lab.
Chosen as one of 20 students from the University of Milan to participate in CyberChallenge.IT, the Italian Government's main initiative for identifying and recruiting future cybersecurity professionals.

Nov 2022 🔖 **International Cyber Conflicts,** The State University of New York (*Remote*).
Developed Skills: *Understanding of international cybersecurity policies, psychology, and sociopolitical factors that characterize attacks and attackers.*

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 60,000 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 – Feb 2024   **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.

   Embedded OS Customization. Explored the complexities of embedded systems and developed a FreeRTOS Lottery Scheduler for Arm Cortex-M3 on QEMU, enhancing scheduling capabilities beyond default implementations.

Research Publications

[1] S. C. Christian Coduri, "A visual cryptography based technique for the protection of medical images," *Multimedia Tools and Applications*, 2025, [In submission].

Awards

Mar 2023   **STart STem Scholarship** (2023/2024) by the Unione Industriali Torino.
- Selected as one of the top 64 first-year master's students in STEM disciplines at Polytechnic University and University of Turin.
- Delivered 40 hours of *math academic support* to lower secondary school students.

Professional Development and Activities

Jun 2024 – now   **De Componendis Cifris APS,** Young Member

5 Dec 2024   **AI Heroes - Turin (Italy),** Attendee

19 Oct 2024   **No Hat - Bergamo (Italy),** Attendee

13-17 Sep 2024   **MOCA Hacker Camp - Pineto (Italy),** Participant

2 Dec 2023   **Molecon - Turin (Italy),** Attendee

17 May 2022   **Cybersecurity Introduction - Portogruaro (Italy),** Remote Speaker
Gave an introductory talk on cybersecurity at *ISIS Gino Luzzatto (VE)*, focusing on key concepts and online security awareness.