

Alessandro Perez

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📄 AlessandroPerez

Education

University of Trento

M.Sc. in Computer Science (Cybersecurity)

Trento, Italy

2023 – Present

Expected graduation: December 2025

Relevant Coursework: Applied Cryptography, Advanced Programming of Cryptographic Methods, Ethical Hacking, Network Intrusion and Anomaly Detection with Machine Learning, Security Testing, Cyber Security Risk Assessment, Network Security

University of Trento

B.Sc. in Computer Science

Trento, Italy

2017 – 2023

Thesis: Security Assessment of Consumer IP Webcams

Relevant Coursework: Operating Systems, Introduction to Computer and Network Security, Networking, Software Engineering, Algorithms and Data Structures

Projects

GitHub: 📄 github.com/AlessandroPerez/T.R.U.S.T

T.R.U.S.T. – Secure Chat in Rust

2025

Developed a secure terminal-based chat application using Rust, implementing X3DH for key exchange and the Double Ratchet algorithm for forward secrecy. Final messages encrypted using AES-GCM. Demonstrates secure communication design and protocol implementation.

GitHub: 📄 github.com/2025-ectf-unitn

MITRE eCTF 2025

2025

Participated in MITRE's international embedded capture-the-flag competition. Contributed to both secure system design (Satellite TV System) and successful software-based attacks on competing implementations. Team ranked 13th of 116 globally.

GitHub: 📄 github.com/AlessandroPerez/DoS-attacks

Denial-of-Service Attacks Lab

2024

Collaboratively researched and demonstrated different types of DoS attacks including SYN Floods and application-layer denial attacks. Presented technical implementation and mitigation techniques.

Experience

Fraglia Vela Desenzano

Sailing Coach

Desenzano del Garda, Italy

2019–2023

Responsible for training and supervising students during both theory and practical lessons. Delivered meteorology briefings and managed equipment maintenance. Demonstrated leadership, safety awareness, and strong communication skills.

Technical Skills

Programming: Python, C, Rust, Bash

Security Tools: Nmap, Burp Suite, Wireshark, SQLMap

Other: Git, Linux, Docker, LaTeX

Soft Skills

Problem-solving, Research-oriented mindset, Team collaboration, Technical documentation

Languages

Italian: Native

English: Advanced (C2)