Tania Titirigă

Computer Science Student

CONTACT

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PROFESSIONAL EXPERIENCE

Cybersecurity Seminars - Google.org | Apr. 2025 - ongoing

- Wireshark, Burp Suite, Nessus, Splunk

Following the theoretical and hands-on modules in IAM, SIEM/SOC, endpoint and network security, I work in a collaborative environment to offer vulnerability assessments to local businesses and public institutions.

Quantum Computing lab practice - LigaAC Labs | Mar. - Jun. 2025

Equal1
- Python and Qiskit

With the knowledge acquired during the training sessions, I developed a Clifford randomized benchmarking tool using Qiskit Aer to estimate fidelity under simulated noise models.

Web Development lab practice - LigaAC Labs | Mar. - Jun. 2024

OPSWAT
- JavaScript, TypeScript, SCSS

Contributed to developing the open-source OPSWAT File Security Chrome Extension, integrating file and URL malware scanning via API. Enhanced the user experience with dynamic, responsive statistics using TypeScript and SCSS.

COMPETITIONS

UVT-CTF Member

Winner - RoNaQCI Quantum Hackathon | Jun. 2025
- National - team of 5
- Organiser: Romanian National Quantum Communication Infrastructure

11th place, International - Hackday CTF Finals | Mar. 2025
- Organiser: ESIEE Paris, France

Finalist, International - CSAW CTF | Nov. 2024
- Organiser: NYU Center for Cyber Security

3rd place, International - Cursed CTF | Mar. 2024

PROJECTS

qTLS

Competing on the QKD track of the RoNaQCI Hackathon, my team and I developed a python library for a client-server handshake using BB84, error correction, privacy amplification and Dilithium certificates.
The demo application includes a network configurator which supports collaborative sessions and intruder simulation.

Lipski-Preparata implementation

Created the first python implementation of the Lipski-Preparata algorithm for efficient contouring of geometrical shapes.

EDUCATION

West University of Timișoara | 2023-2026

Bachelor of Computer Science in English

English - bilingual proficiency   **Romanian** - native proficiency   **French, German** - elementary proficiency