Christian Sassi

sassi.christian@gmail.com | [LinkedIn](#) | [GitHub](#)

EDUCATION

Master's Degree in Computer Science, Cybersecurity - University of Trento — Trento, Italy
Expected graduation in October 2025. — *Sep. 2023 – Present*

Bachelor's Degree in Computer Engineering - University of Trento — Trento, Italy
Graduated with a final grade of 108/110. — *Sep. 2020 – Sep. 2023*

EXPERIENCE

Software Engineer Intern - Embedded Systems — Feb. 2023 – Jun. 2024
University of Trento — *Trento, Italy*

- Validated **SPARK SR1020 UWB IoT devices** against their specifications, ensuring reliability and readiness for system integration.
- Enhanced real-time **UWB communication for music streaming** by developing and optimizing **C-based software**, achieving a **50% faster response time**.
- Improved system performance by building a **Python script** to analyze **audio packet behavior**, providing insights to refine the **IoT software**.
- Demonstrated strong **teamwork** and **problem-solving skills** by collaborating with a team of **10 members** in a **multidisciplinary environment** to develop IoT-based solutions.

Software Developer — Oct. 2022 – Oct. 2023
Fiverr — *Remote*

- Developed custom software applications in **C/C++**, **Python**, and **Java** for different client needs.
- Managed projects for over **60 clients**, ensuring timely delivery and high-quality results.
- Maintained a **100% delivery rate** and a perfect **5/5 customer satisfaction rating**.

PROJECTS

Phantom Wallet API Integration | *Python, RESTful APIs*

- Developed an **unofficial Python library** to interact with the **Phantom Wallet backend API**.
- Implemented and tested key functionalities, including **wallet insights**, **token data retrieval**, **trending asset information**, and **learning resources and quests**.
- Designed the library to support multiple blockchain networks, including **Solana**, **Ethereum**, **Base**, **Sui**, **Polygon**, and **Bitcoin**, ensuring **compatibility** and **scalability** across multiple ecosystems.

Domain Shift Adaptation with MEMO | *PyTorch, Scikit-learn, NumPy*

- Applied **Test-Time Adaptation (TTA)** techniques to improve the **robustness** of a pre-trained neural network on test images.
- Implemented **Marginal Entropy Minimization (MEMO)**, achieving an improvement of **over 3%** in overall performance.

Security Testing Analysis for an E-commerce Platform

- Conducted a comprehensive **static and dynamic security analysis** using **SpotBugs** and **ZAP**.
- Identified and prioritized over **15 potential vulnerabilities**, including **SQL Injection**, **XSS**, and **CSRF**, as part of a structured **vulnerability management process**.
- Provided a working solution for each vulnerability, **improving the platform's security posture** and reducing potential attack vectors.

PUBLICATIONS

Real-time Musical Haptics with Ultra-wideband: A Study on Latency, Reliability, and Perception
L. Turchet, C. Sassi, D. Vecchia, G. Picco — Published in IEEE Transactions on Haptics on January 6, 2025.

TECHNICAL SKILLS

Languages: Italian, English
Programming languages: Python, C/C++, Rust, Java, JavaScript, HTML/CSS, SQL
Security Skills: Injection Attacks, Cryptography, Pwn, Reverse Engineering, Web Security