

Antonio Squillace

San Mauro Marchesato, Calabria, Italy ✉ tosqui17@gmail.com ☎ +393335719248 🌐 [in/tosqui/](https://in.tosqui/)

SUMMARY

Experienced penetration tester with 2 years of experience in vulnerability assessment, intrusion testing, and reporting of security risks. Proven skill in designing and executing effective penetration tests to identify and mitigate security threats. I like to have new experiences and I am committed to learning always new things. I adapt quickly to various needs and I work well in a team.

EXPERIENCE

Cybersecurity Analyst / Research and Development | Relatech

May 2022 - November 2023, Rende, CS, Italy

- **Innovative ICS Security Framework:** Develops an advanced framework for Industrial Control Systems (ICS), integrating a "digital twin" for dynamic security monitoring, aimed at reinforcing the protection of critical industrial infrastructures.
- **Digital Twin for Enhanced Monitoring:** Utilizes a digital twin, simulating a palletizing system with elements like a mechanical arm and sensors, to model and scrutinize cyber attack scenarios on production processes.
- **Realistic Cyber Attack Simulations:** Employs the digital twin to enact various authentic cyber attack scenarios, generating datasets that mirror typical and compromised system behaviors, thus uncovering potential vulnerabilities.
- **Comprehensive Intrusion Detection System:** Establishes a robust three-phase intrusion detection system involving data collection, process modeling from logs, and anomaly detection to identify cyber threats.
- **Cyber Range Integration for Testing:** Incorporates a cyber range environment capable of integrating digital twins, significantly enhancing system testing and simulation for in-depth security evaluations.
- **Advanced Log Collection and Scenario Management:** Implements an eBPF probe for versatile log collection and develops YASDL, a hypervisor-independent scenario definition language, to efficiently manage and share attack scenarios within the cyber range.

Penetration Tester | Artaud SRL

January 2023 - Present, Rende, CS, Italy

- **Cybersecurity Expertise:** Specialized in vulnerability assessment, penetration testing, and ethical hacking, with extensive experience in complex vulnerability analysis and intrusion testing on advanced IT infrastructures.
- **Network Mapping Proficiency:** Skilled in conducting detailed network mappings using advanced scanning techniques, with a consistent practice in vulnerability assessments and penetration tests, following standards like OSSTMM and OWASP.
- **Operating Systems Proficiency:** In-depth knowledge of Windows and Linux environments, focusing on identifying and evaluating critical vulnerabilities, and skilled in exploit development and privilege escalation.
- **Versatility in Security Tool Usage:** Adept at employing a broad array of security tools, with a strong emphasis on manual techniques complemented by automated tools for comprehensive vulnerability analysis and intrusion testing. This includes proficiency with Nmap, Burp Suite, Metasploit, and SQLMap, demonstrating a balanced skill set in both hands-on and automated methodologies.
- **Source Code Analysis Specialization:** Expertise in static and dynamic analysis of source code to identify vulnerabilities and programming flaws, key in cybersecurity.
- **Reporting and Continuous Learning:** Commitment to detailed reporting and vulnerability classification based on frameworks like CWE, CVE, and CVSS, combined with a dedication to staying updated with the latest cybersecurity techniques and research, and a proven track record in successfully completing critical security audit projects.
- **Vulnerability Remediation:** Highly skilled with a strong technical background and detailed security knowledge required to remediate complex vulnerabilities.

EDUCATION

Master's Degree in Cybersecurity | Università della Calabria

4.00, Rende, CS, 2022

Bachelor's Degree in Computer Science | Università della Calabria

3.5, Rende, Italy, 2019

CERTIFICATIONS

[Mastering CVSS v3.1](#) | FIRST Learning

2023

- Certification is relevant as it signifies expertise in assessing and communicating the severity of cybersecurity vulnerabilities, crucial for effective risk management in IT security.

[ISO/IEC 27001:2022](#) | DIMITTO CERTIFICATION SERVICES

2023

[UNI EN ISO 19011 AND EN ISO/IEC 17021](#) | DIMITTO CERTIFICATION SERVICES

2023

[Autopsy Training Course](#) | BasisTech

2020

[CyberChallenge.IT Training Course](#) | Università della Calabria

2019

SKILLS

Soft Skills: Creativity, Teamwork, Self Starter, Positive Attitude, Respectful, Technology Advocate, Ethical Integrity

Hard Skills:

Programming Languages: Java , Python, C, Assembly, Javascript, Typescript, Bash, Powershell

Web Development: JavaEE (EJB, JPA), Hibernate, Angular, Spring

Cloud Services: Packer, Vault, Terraform, Ansible, Cloud-init

Digital Twin Software: Factory I/O, Omnet++

Other: Nmap, BurpSuite , Dirb, Dirbuster, Fiddler, Frida (Mobile), Wireshark, Tracee, TcpDump, Metasploit, Hashcat, John, Hydra, SQLmap, FUFF, Wfuzz, Scrapy, Netcat, Nikto, Docker, Nextcloud, LDAP, MySQL, VMware, VirtualBox, Qemu, Office Word, Office Powerpoint, Office Excel.