

EXPERIENCE

• Hacktive Security

Offensive Security Analyst

Full Remote

Mar. 2024 - Present

- Conducted penetration tests for many famous firms, identified high-severity vulnerabilities in web applications, network infrastructures, and APIs.
- Delivered detailed, high-quality reports outlining vulnerabilities, potential impacts, and actionable remediation steps, enhancing clients' security posture.
- Executed on-site internal network penetration tests thorough security assessments compliant with industry standards.
- Performed advanced Research initiatives and contributed to the development of security tools and techniques.

• Sapienza University

Security Researcher

Full Remote

June 2023 - Feb. 2024

Received a research grant at DIET Department to continue the studies on security in programmable networks.

- Designed, implemented and tested an innovative framework for anomalies and attacks detection in network environments through log analysis using Python and Bash.
- Discovered vulnerabilities (CVEs) and new attack methodologies through testing, static and dynamic analysis in network applications written in Java.

• Consortium for the Research in Automation and Telecommunication (CRAT)

Network Security Researcher

Full Remote

Sep. 2023 - Feb. 2024

For a project commissioned by the European Space Agency (ESA):

- Studied and defined system scenarios, technical requirements and specifications for a new communication protocol for satellite networks.
- Reviewed designs and implementations of various state-of-the-art network protocols for compatibility and security standards

• Bugcrowd

Security Researcher

Full Remote

Nov. 2021 - Nov. 2023

- **bugcrowd.com/edoardottt**: Successfully identified and reported 300+ security vulnerabilities in high-profile companies and U.S. Government offices, with a specialization in web and network applications.
- **CISA**: Recognized for outstanding work by reaching second place at the Cybersecurity and Infrastructure Security Agency 2021 Competition. Third place globally on Researcher Leaderboard Valid Submissions Since Launch ([CISA VDP 2023 Report](#))

• SeismoCloud

Software Developer

Rome, Italy

Mar. 2020 - Oct. 2020

- **SeismoCloud EUD system**: Designed, implemented and secured an user-friendly End User Development system (Docker, NodeJS) to enable non-technical users to configure and control networks of IoT devices and online services (e.g. automate actions such as sending Telegram/Email messages and posting tweets through IoT devices data).
- **API development**: Resolved issues in the SeismoCloud REST API system (Golang) providing information on Sensors signalings, devices and users' data, as well as associated statistics.

TECHNICAL SKILLS

Application and Network Security, Software Development and Security Code Review. Extensive knowledge of networks and networking protocols (TCP/IP, Routing, HTTP, DNS, DHCP, IPS, IDS, WAF, Firewall, Proxy).

- **Languages:** Python, Go, Bash, Java, C, Javascript, SQL, HTML and other C-family languages.
- **Technologies:** Linux (Local, VM and on Cloud), Windows, Git, GitHub Actions, BurpSuite, SAST and DAST, Metasploit, Nessus, Nuclei and other vulnerability scanners, Docker, Relational Databases, VSCode, Wireshark, Postman.

EDUCATION

- **Sapienza University** Rome, Italy
Master's Degree in Cybersecurity; 109/110 *Oct. 2020 – May 2023*
Dissertation: "Proposal and Investigation of a framework for Cross App Poisoning attacks detection in Software Defined Networks."
- **Sapienza University** Rome, Italy
Bachelor's Degree in Computer Science; 103/110 *Sept. 2016 – Oct. 2020*
Dissertation: "Design and development of the End User Development system in SeismoCloud".
- **Fabio Besta Scientific High School** Orte, Italy
Scientific High School Diploma; 71/100 *Sept. 2011 – July 2016*

AWARDS - CERTIFICATIONS - LICENSES

- **CASA by APISec** Aug. 2024
Certified API Security Analyst ([CASA Certificate link](#))
- **Security+ by CompTIA** Feb. 2024
Certified CompTIA Security+ ([Sec+ Certificate link](#))
- **ICCA by INE** July 2023
Certified Cloud Associate ([ICCA Certificate link](#))
- **eWPT by eLearnSecurity (INE)** June 2023
Certified Web Application Penetration Tester ([eWPT Certificate link](#))
- **eJPT by eLearnSecurity (INE)** Sept. 2022
Certified Junior Penetration Tester ([eJPT Certificate link](#))

OPEN SOURCE PROJECTS

Open-sourcing since 2018, reached 12k+ stars on GitHub: github.com/edoardottt

- **scilla**: Information Gathering tool - DNS / Subdomains / Ports / Directories enumeration
- **cariddi**: Take a list of domains, crawl urls and scan for endpoints, secrets, api keys, file extensions, tokens and more
- **csprecon**: Discover new target domains using Content Security Policy.
- **lit-bb-hack-tools**: Little Bug Bounty and Hacking Tools.

SECURITY ADVISORIES

Discovered, reported and responsibly disclosed many undetected vulnerabilities in popular products (mainly with code reviews, but also testing, static and dynamic analysis): edoardoottavianelli.it/cve

LANGUAGES

- **Italian**: Native speaking.
- **English**: Professional Working Proficiency.