

## EXPERIENCE

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- **Sapienza University**

Security Researcher

Full Remote

June 2023 - Present

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.
- Studying and defining system scenarios and technical requirements and specifications for a new communication protocol for satellite networks (in collaboration with European Space Agency).
- Discovered vulnerabilities and new attack methodologies through testing, static and dynamic analysis in network applications written in Java.

- **Bugcrowd**

Security Researcher

Full Remote

Nov. 2021 - Present

- **bugcrowd.com/edoardottt**: Successfully identified and reported 250+ security vulnerabilities in high-profile companies and U.S. Government offices, with a specialization in web applications.
- **CISA Competition**: Recognized for outstanding work by reaching second place at the Cybersecurity and Infrastructure Security Agency (CISA) 2021 Competition.

- **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.

## EDUCATION

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- **Sapienza University**

Master's Degree in Cybersecurity; 109/110

Rome, Italy

Oct. 2020 - May 2023

Dissertation: "Proposal and Investigation of a framework for Cross App Poisoning attacks detection in Software Defined Networks."

- **Sapienza University**

Bachelor's Degree in Computer Science; 103/110

Rome, Italy

Sept. 2016 - Oct. 2020

Dissertation: "Design and development of the End User Development system in SeismoCloud".

- **Fabio Besta Scientific High School**

Scientific High School Diploma; 71/100

Orte, Italy

Sept. 2011 - July 2016

## TECHNICAL SKILLS

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

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

## AWARDS - CERTIFICATIONS - LICENSES

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- **ICCA by INE**  
Certified Cloud Associate ([ICCA Certificate link](#))
- **eWPT by eLearnSecurity (INE)**  
Certified Web Application Penetration Tester ([eWPT Certificate link](#))
- **eJPT by eLearnSecurity (INE)**  
Certified Junior Penetration Tester ([eJPT Certificate link](#))
- **Class B European Driving License**

## PERSONAL PROJECTS

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Open-sourcing since 2018, reached 10k+ stars on GitHub: [github.com/edoardottt](https://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

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

- [CVE-2023-30097](#) A stored cross-site scripting (XSS) vulnerability in TotalJS messenger commit b6cf1c9 allows attackers to execute arbitrary web scripts or HTML via a crafted payload injected into the private task field.
- [CVE-2023-30096](#) A stored cross-site scripting (XSS) vulnerability in TotalJS messenger commit b6cf1c9 allows attackers to execute arbitrary web scripts or HTML via a crafted payload injected into the user information field.
- [CVE-2023-30095](#) A stored cross-site scripting (XSS) vulnerability in TotalJS messenger commit b6cf1c9 allows attackers to execute arbitrary web scripts or HTML via a crafted payload injected into the channel description field.
- [CVE-2023-30094](#) A stored cross-site scripting (XSS) vulnerability in TotalJS Flow v10 allows attackers to execute arbitrary web scripts or HTML via a crafted payload injected into the platform name field in the settings module.
- [CVE-2023-30093](#) A XSS vulnerability in Open Networking Foundation ONOS from version v1.9.0 to v2.7.0 allows attackers to execute arbitrary Javascript code via a crafted payload injected into the url parameter of the API documentation dashboard.
- [CVE-2023-27070](#) A stored cross-site scripting (XSS) vulnerability in TotalJS OpenPlatform commit b80b09d allows attackers to execute arbitrary web scripts or HTML via a crafted payload injected into the platform name field.
- [CVE-2023-27069](#) A stored cross-site scripting (XSS) vulnerability in TotalJS OpenPlatform commit b80b09d allows attackers to execute arbitrary web scripts or HTML via a crafted payload injected into the account name field.
- [CVE-2023-24769](#) Changedetection.io before v0.40.1.1 was discovered to contain a stored XSS vulnerability in the main page. This vulnerability allows attackers to execute arbitrary Javascript code via a crafted payload injected into the URL parameter under the "Add a new change detection watch" function.
- [CVE-2023-24279](#) A XSS vulnerability in Open Networking Foundation ONOS from version v1.9.0 to v2.7.0 allows attackers to execute arbitrary Javascript code via a crafted payload injected into the url parameter of the API documentation dashboard.

- CVE-2022-44019 In Total.js 4 before 0e5ace7, /api/common/ping can achieve remote command execution via shell metacharacters in the host parameter.
- CVE-2022-41392 A cross-site scripting (XSS) vulnerability in TotalJS commit 8c2c8909 allows attackers to execute arbitrary web scripts or HTML via a crafted payload injected into the Website name text field under Main Settings.

## LANGUAGES

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- **Italian:** Native speaking.
- **English:** Middle-level speaking.

## SCIENTIFIC PUBLICATIONS

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- **Simplify Node-RED for End User Development in SeismoCloud**  
Enrico Bassetti, Edoardo Ottavianelli, Emanuele Panizzi  
<https://arxiv.org/pdf/2012.05637.pdf>