

# Edoardo Ottavianelli

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## EXPERIENCE

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- **Sapienza University** Full Remote  
Security Researcher *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.
  - Discovered vulnerabilities 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)** Full Remote  
Network Security Researcher *Sep. 2023 - Present*
  - Studying and defining system scenarios, technical requirements and specifications for a new secure communication protocol for satellite networks for the European Space Agency (ESA).
- **Bugcrowd** Full Remote  
Security Researcher *Nov. 2021 - Present*
  - **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 Competition**: Recognized for outstanding work by reaching second place at the Cybersecurity and Infrastructure Security Agency (CISA) 2021 Competition.
- **SeismoCloud** Rome, Italy  
Software Developer *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** 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*

## 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): [edoardoottavianelli.it/cve](https://edoardoottavianelli.it/cve)

## 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>