



Edoardo Ottavianelli

WORK EXPERIENCE

01/11/2021 – CURRENT Full Remote, United States

IT SECURITY OFFICER BUGCROWD (FREELANCE)

- 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.

01/03/2020 – 23/10/2020 Rome, Italy

SOFTWARE ENGINEER SEISMOCLOUD (INTERN)

- 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 AND TRAINING

09/2020 – 31/05/2023 Rome, Italy

MASTER'S DEGREE IN CYBERSECURITY Sapienza University

Address Piazzale Aldo Moro, 5, Rome, Italy | **Website** <https://www.uniroma1.it/en/> |

Field of study Information and Communication Technologies (ICTs) not further defined | **Final grade** 109 |

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

01/09/2016 – 23/10/2020 Rome, Italy

BACHELOR'S DEGREE IN COMPUTER SCIENCE Sapienza University

Address Piazzale Aldo Moro, 5, Rome, Italy | **Website** <https://www.uniroma1.it/en/> |

Field of study Information and Communication Technologies (ICTs) not further defined | **Final grade** 103 |

Thesis Design and development of the End User Development system in SeismoCloud

01/09/2011 – 30/06/2016 Orte, Italy

SCIENTIFIC HIGH SCHOOL DIPLOMA Liceo "Fabio Besta"

Address Via del Campo Sportivo, 22, Orte, Italy |

Website <https://www.scuoleorte.edu.it/istituto/scuola-secondaria-di-secondo-grado/> | **Final grade** 71

● DIGITAL SKILLS

Programming Languages

python | go | java | c | c++ | Bash (Unix Shell) | c#

Technologies

Ethical Hacking (Metasploit, BurpSuite, SQL injection) | docker | SQLite | sast | wireshark | onos | mininet | postman | dast | git | postgresql | MySQL | vscode | mongoDB | Github / Gitbash

Operating Systems

Linux (Local, VM and Cloud) | Windows

General skills

Security | Application Security | software design | testing | debugging | network pentesting | Networking | code reviews | software development | Programmable networks

● LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	B2	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● ADDITIONAL INFORMATION

PROJECTS

01/01/2018 – CURRENT

Open Source (GitHub) Open-sourcing since 2018, reached 8.5k+ stars on GitHub. (<https://github.com/edoardottt>)

Link <https://github.com/edoardottt>

HONOURS AND AWARDS

10/09/2022

eJPT - Certified Junior Penetration Tester – eLearnSecurity (INE) The eLearnSecurity Junior Penetration Tester (eJPT) is a 100% practical certification on penetration testing and information security essentials. Topics covered: TCP/IP, IP routing, LAN protocols and devices, HTTP and web technologies, Essential penetration testing processes and methodologies, Basic vulnerability assessment of networks, Basic vulnerability assessment of web applications, Exploitation with Metasploit, Simple web application manual exploitation, Basic information gathering and reconnaissance and Simple scanning and profiling the target

Link <https://verified.elearnsecurity.com/certificates/b0bb2d00-6177-43b0-938f-5511e40e8f4c>

PUBLICATIONS

[Simplify Node-RED for End User Development in SeismoCloud](#) – 2020

Networks of IoT devices often require configuration and definition of behavior by the final user. Node-RED is a flow-based programming platform commonly used for End User Development, but it requires networking and protocols skills in order to be efficiently used. We add a level of abstraction to Node-RED nodes in order to allow non-skilled users to configure and control networks of IoT devices and online services. We applied such abstractions to the SeismoCloud application for earthquake monitoring.

Link <https://arxiv.org/pdf/2012.05637.pdf>

VOLUNTEERING

01/01/2006 – CURRENT Italy

FSE Chief Scout

Link <https://fse.it/>

DRIVING LICENCE

Driving Licence: B