Andrea Valenza

PhD, Senior Software Security Consultant & Trainer

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💼 Professional Experience

2022 – present	**Security Engineer,** *Prima Assicurazioni*
2021 – 2022	**Senior Software Security Consultant,** *IMQ Minded Security* Penetration Testing and Training
2020 – 2021	**Software Security Consultant,** *IMQ Minded Security* Penetration Testing and Training
2020	**Penetration Tester,** *CINI* Vulnerability Assessment and Penetration Testing of the CyberChallenge.IT platform
2015 – 2017	**Research Grant Holder,** *University of Genova* Development of Techniques and Tools for Application Security Testing
2013 – 2015	**Freelance Web Developer**

🧠 Teaching Experience

2020 – present	**Adjunct Professor of Functional and Security Testing Techniques,** *University of Genova*
2018 – present	**CyberChallenge.IT Instructor,** *CINI* Practical Security Fundamentals, Web Security, Access Control
2017 – 2020	**Security Trainer,** *ZenHackAdemy* Lessons and Meetings on practical security by the ZenHack CTF Team
2020	**Web Security Instructor,** *Xelon Sinergetica*
2019	**Web Security Instructor,** *RINA Academy*
2018	**Web Security Lecturer,** *2nd-level Professional Master's Degree, StelMilit*
2017 – 2018	**Web Security Lecturer,** *2nd-level Professional Master's Degree in Cyber Security and Data Protection*
2016 – 2018	**Computer Security Lecturer,** *Master's Degree – University of Genova*
2016 – 2018	**Web Application Development Lecturer,** *Bachelor's Degree – University of Genova*

🎓 Education

2017 – 2021	**PhD in Computer Science and Systems Engineering,** *University of Genova* Vulnerability Detection and Security Awareness
2015 – 2017	**2nd-level Professional Master's Degree in Cyber Security and Data Protection,** *University of Genova*
2012 – 2015	**Master's Degree in Computer Engineering,** *University of Genova*
2008 – 2012	**Bachelor's Degree in Computer Engineering,** *University of Genova*

📰 Publications

Never Trust Your Victim: Weaponizing Vulnerabilities in Security Scanners, *RAID 2020* ⬈
  Cross-Site Scripting Vulnerabilities in Security Scanners,
  including Rapid7 Metasploit Pro (CVE-2020-7354 and CVE-2020-7355)
  [Blogpost] Attacking the Attackers - https://avalz.it/research/metasploit-pro-xss-to-rce/ ⬈
  [Tool] RevOK - https://github.com/AvalZ/RevOK ⬈

Damn Vulnerable Application Scanner, *ITASEC 2021* ⬈
  A Collection of Intentionally Vulnerable Security Scanners
  [Repository] https://github.com/AvalZ/DVAS ⬈

WAF-A-MoLE: Evading Web Application Firewalls through Adversarial Machine Learning, *SAC 2020* ⬈
  A Search-based Methodology to Bypass ML-based WAFs

WAF-A-MoLE: An Adversarial Tool for Assessing ML-based WAFs, *SoftwareX 2020*
  A Guided Mutation-based Fuzzer to Bypass ML-based Web Application Firewalls
  [Tool] https://github.com/AvalZ/WAF-A-MoLE ⬈

A NERD DOGMA: Introducing CTF to Non-expert Audience, *SIGITE 2020*
  An Entry-level CTF presented as an on-site and virtual Escape Room game

ZenHackAdemy: Ethical Hacking@ DIBRIS, *CSEDU 2019*
  CTF-style Security Training within the ZenHackAdemy Initiative

Semi-automatic Generation of Cybersecurity Exercises: A Preliminary Proposal, *EnSEmble 2019*

Web security training [at] UniGe: an Experience, *Programming 2019*

Mobile App Security Assessment with the MAVeriC Dynamic Analysis Module, *ASIACCS 2015*

📜 Certificates

Lead Auditor ISO/IEC 27001:2013

🎸 Interests

CTF
Co-founder and Trainer @ ZenHack CTF Team (https://zenhack.it)
Boeing-UNIGE CTF Organizer and Trainer (1st, 2nd, and 3rd edition)
Leonardo-UniGe Cybersecurity Scholarship Program Trainer (1st edition)
CyberChallenge.IT Trainer since 2018
ZenHackAdemy Organizer and Trainer

Taekwondo
2nd Dan black belt athlete, Referee, and Instructor @ A.S.D. Hwasong

George Ottolyal

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