Andrea Valenza

Software Security Consultant
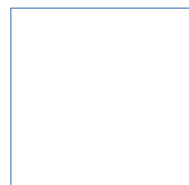
Education

2018–now	**Ph.D. in Computer Science and System Engineering**, *University of Genoa*, Genoa, Italy. Cyber Security — Automation of web security testing and exploitation techniques
2015–2017	**Second-level Professional Master's Degree in Cyber Security and Data Protection**, *University of Genoa*, Genoa, Italy.
2012–2015	**Master's Degree in Computer Engineering**, *University of Genoa*, Genoa, Italy. DDoS Mitigation in Software Defined Networks
2008–2012	**Bachelor's Degree in Computer Engineering**, *University of Genoa*, Genoa, Italy.

Teaching Experience

2018–now	**CyberChallenge.IT Instructor**, *University of Genova*. Practical Security Fundamentals, Web Security, Access Control
2017–now	**ZenHackAdemy**, *University of Genova*, Genova, Italy. Lessons and Meetings on practical security by the ZenHack CTF Team
2020	**Instructor**, *Xelon Sinergetica*, Genova. Sicurezza delle applicazioni Web
2019	**RINA Academy Instructor**, *RINA Academy*, Genova. Security Testing of Web Applications
2017–2018	**Second-level Professional Master's Degree – "Cyber Security and Data Protection"**, *University of Genova*. Web Security
2018	**Second-level Professional Master's Degree**, *StelMilit*, Chiavari (GE), Italy. Web Security and Exploitation
2016–2018	**Computer Security**, *Master's Degree – University of Genova*, Chiavari (GE), Italy. Web Security and Exploitation
2016–2018	**Web Application Development**, *Bachelor's Degree – University of Genova*. Building secure web applications with modern technologies

Job Experience

2020–now	**Software Security Consultant**, *IMQ Minded Security*, Milano, Italy.
2020	**VAPT CyberChallenge.IT**, *CINI*. Vulnerability Assessment and Penetration Testing of the CyberChallenge.IT platform

2015–2017 **Research Grant**, *CSecLab*, Genova.
Techniques and Tools for Automatic Application Security Analysis

2014–2015 **Web Developer**, *Genny Mobility SA*, Savona.

2013–2015 **Freelance Web Developer**, Genova.

Certifications

2016 **Lead Auditor ISO/IEC 27001:2013**, *KHC*.
Information security management systems

Publications

[1] Andrea Valenza, Gabriele Costa, and Alessandro Armando. Never Trust Your Victim: Weaponizing Vulnerabilities in Security Scanners. In *23rd International Symposium on Research in Attacks, Intrusions and Defenses (RAID 2020)*, 2020.

[2] Andrea Valenza, Luca Demetrio, Gabriele Costa, and Giovanni Lagorio. WAF-A-MoLE: An adversarial tool for assessing ML-based WAFs. *SoftwareX*, 2020.

[3] Luca Demetrio, Andrea Valenza, Gabriele Costa, and Giovanni Lagorio. WAF-A-MoLE: Evading Web Application Firewalls through Adversarial Machine Learning. In *Proceedings of the 35th Annual ACM Symposium on Applied Computing*, 2020.

[4] Luca Demetrio, Giovanni Lagorio, Marina Ribaudo, Enrico Russo, and Andrea Valenza. ZenHackAdemy: Ethical Hacking @ DIBRIS. In *Proceedings of the 11th International Conference on Computer Supported Education, CSEDU*, 2019.

[5] Andrea Valenza. Web Security Training [at] UniGe: An Experience. In *Proceedings of the Conference Companion of the 3rd International Conference on Art, Science, and Engineering of Programming*, 2019.

[6] Marina Ribaudo and Andrea Valenza. Semi-automatic Generation of Cybersecurity Exercises: A Preliminary Proposal. In *Proceedings of the 2Nd ACM SIGSOFT International Workshop on Ensemble-Based Software Engineering for Modern Computing Platforms*, 2019.

[7] Alessandro Armando, Gianluca Bocci, Gabriele Costa, Rocco Mammoliti, Alessio Merlo, Silvio Ranise, Riccarto Traverso, and Andrea Valenza. Mobile app security assessment with the maveric dynamic analysis module. In *Proceedings of the 7th ACM CCS International Workshop on Managing Insider Security Threats*, 2015.

Interests

Taekwondo   2nd Dan Black belt athlete, referee, and instructor @ A.S.D. Hwasong

CTFs   Co-founder and active member @ ZenHack CTF Team (`https://zenhack.it`), Boeing-UNIGE CTF Organizer (1st, 2nd, and 3rd edition), CyberChallenge.IT trainer