

PERSONAL INFORMATION

DIMITRIOS VALSAMARAS

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PERSONAL STATEMENT

Has participated in many international and local projects increasing his experience in Mobile, Web and Network penetration testing. Holds a degree in Computer Science, with a major in Cryptography and Security. His prior experience in the IT industry spans from development and systems administration, to IT Security services. He has a strong passion for reverse engineering and was a member of one of the first reverse engineering research groups in Greece.

WORK EXPERIENCE

01/06/2017–Present

IT Security Engineer

Census S.A, Athens (Greece)

Current responsibilities include:

- *Security audits and penetration testing in the following areas:*
 - *Web applications*
 - *Mobile applications (mainly on the Android platform)*
 - *Internal networks*
 - *IoT devices*
- *Reverse engineering*
- *Malware analysis*
- *Code audit*
- *Vulnerability research*

01/10/2014–01/06/2017

Web developer

Freelancer, Nikiti (Greece)

Was in charge for developing websites and applications using web technologies (HTML, CSS, and JavaScript).

01/05/2014–01/10/2014

Software Developer

National Technical University Of Athens, Athens (Greece)

Was in charge for the migration and rewrite of Castalia – A computer system for stochastic simulation and forecasting of hydrologic processes - to an update Software development environment.

01/06/2002–01/06/2012

Network Security Engineer

Porto Carras Grand Resort, Neos Marmaras (Greece)

Was responsible for the provisioning, deployment, configuration, and administration of many different pieces of network and security-related hardware and software, including firewalls, routers, switches, various network-monitoring tools, and virtual private networks (VPNs).

EDUCATION AND TRAINING

- 01/06/2018–01/02/2019 **Certified Ethical Hacker (CEH)**
EC-Council University, Albuquerque (United States)
- 01/06/2012–01/09/2012 **Statement of accomplishment In Cryptography**
Stanford, Stanford (United States)
- 01/10/2011–01/02/2012 **Certification in Microprocessors**
IEEE, New Jersey (United States)
- 01/10/2005–01/07/2011 **Bachelor's Degree in Computer Science**
Hellenic Open University, Patra (Greece)

PERSONAL SKILLS

Mother tongue(s) Greek

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Job-related skills

- Experience with reverse engineering tools and techniques
 - Debuggers, decompilers, disassemblers,
 - Static and dynamic binary analysis, binary injection
 - Code Audit
- Experience in web application security assessment and relative tools (Burp proxy, Vulnerability scanners e.t.c.)
- Experience in internal network penetration testing
 - Firewalls, network scanners, exploitation frameworks
- Experience in Mobile Application Security
- Experience in IoT Security Assessment (with a focus on medical devices)
- Experience with both Windows and Linux OS
- Good understanding of C, C++ and Assembly language
- C#, Java, Python development skills

Other skills

- **Basic Safety Training**
 - *Personal Survival Techniques, Elementary First Aid, Personal Safety and Social Responsibilities.*
- **New Manager Training:**
 - *Introduction to Management, Leading and Delegating, Coaching and Motivating, Performance, Management and Disciplinary Actions, Performance Appraisals, Communication, Profit and Budget, Cost and Revenue.*

ADDITIONAL INFORMATION

Publications

- I. Stais, D. Valsamaras, "A study on the cybersecurity risks of IoT devices used in the fitness

industry", Hitting the Gym: The Anatomy of a Killer Workout (TROOPERS 2019)

- D. Valsamaras, V. Zorkadis, "Assessment and practical practice of homomorphic encryption techniques", Hellenic Open University, Patra 2013

Projects

Developer of AV/ATOR: a backdoor generator utility, which uses cryptographic and injection techniques in order to bypass AV detection. More specifically:

- It uses AES encryption in order to encrypt a given shell- code
- Generates an executable file which contains the encrypted payload
- The shell- code is decrypted and injected to the target system using various injection techniques

Project Web page: <https://github.com/Ch0pin/AVlator>