Salvatore Fresta
Curriculum Vitae
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Personal Details

Salvatore Fresta
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Overview

Senior developer, SEO consultant specialist and IT security researcher with 12 years of experience in management and software developing for Microsoft and Unix-Like operating systems, such as GNU/Linux, BSD and Mac OSX.

Particular interests in IT security, specialist in penetration testing, code analysis and auditing of web applications and standalone applications.

Some security advisories and security papers have been released to the biggest IT security websites such as securityfocus.com, secunia.com, governmentsecurity.org, exploit-db.com and packetstormsecurity.com.

Education and Qualification

IT Security Degree – University of Milan, in progress.

Microsoft MTA Security Fundamentals.

Microsoft MTA Networking Fundamentals.

CWNP Wireless# Certification.

CWNP Certified Wireless Technology Specialist.

Computer Science - Istituto Tecnico Industriale Statale "G. Ferraris" High School (Acireale, 2009), with score 98/100.

Languages

Italian – Native language

English – Fluent in specialized information technology and intermediate level of spoken and written language.

Work Experience

(July 2015 – Current) Chief Operating Officer & CO-Founder at SqueezeMind S.R.L.S.

Manager and coordinator of the development team, web marketing and all operational activities.

(January 2013 – July 2014) SEO Consultant Specialist at Marketing Genius

Development, optimization and maintenance of SEO web platforms, in order to facilitate online marketing strategies, using professional techniques and tools such as eye tracking and surveys.

(May 2012 – December 2012) Chief Operating Officer at TotallyGame Int. Ltd.

Responsible for daily operations of the company and of business development area.

(June 2011 – July 2012) Development officer for Betnest and the back office panel

Development of the betting/gaming platform (including games) in accordance with the laws established by the Lotteries and Gaming Authority.

(June 2011 – July 2012) Development officer for TotallyGame Int. Ltd.

Development of TotallyGame Int. Ltd.'s affiliate platform in accordance with the laws established by the Lotteries and Gaming Authority. This platform aims to expand the partnership programme to users around the globe, both online and offline, creating a hierarchical N-levels network. Completion of data and 3D charts for the visualization of trends and targets.

(March 2011 – April 2012) Senior Web Developer at TotallyGame Int. Ltd.

Development of new Poolbet versions and of the backup system in accordance with the laws established by the Lotteries and Gaming Authority (full and incremental backup, making combined use of 256 bit symmetric encryption and of 2048 bit asymmetric encryption, centralized). IT Security consultant for the servers located in the headquarters at La Valletta, Malta.

(August 2009) System Administrator at Ratio Consulta S.P.A.

Management and troubleshooting of the VoIP and data networks for the technical support of **Enel Energia** and **Nintendo**.

(July/August 2009) Web Developer at Team TLC S.R.L.

Development of a CMS for Team TCL telecommunications company (not online).

(July 2009) Computer Science Specialist at Team TLC S.R.L.

Configuration and testing of about 500 computers for the provinces of Messina, Catania, Palermo, Siracusa, Ragusa, Agrigento, Enna, Caltanissetta and Trapani.

(June 2008) Computer Science University Private Lessons

Tutor in C programming and operating systems for an university student (final score: 30/30 cum laude - distinction).

(February 2008) Web Developer for Massimiliano Rinaldi engineer

Development of an e-learning web application for the management of the I.F.T.S. courses.

(December 2007) Web Developer at Siragusa Law Firm

Development of a web application for law management.

(October 2007) A System Administrator at Siragusa Law Firm

Installation and configuration of a wireless network using WiFi technology.

Other Experiences

(July 2010) Penetration tester for FreakNet Medialab

Penetration testing for the web server of Freaknet Medialab, reporting the security flaws in a detailed security advisory with some patches attached.

(July 2010) Penetration tester for Dyne.org Foundation

Penetration testing for the web server of Dyne.org Foundation of Amsterdam, reporting the security flaws in a detailed security advisory with some patches attached.

(July, 23-25/2010) Collaboration with Poetry Hacklab for Sbarco G.A.S.

Demonstration of operation and exposure of some computer systems that are part of the historical computers' museum at Palazzolo Acreide.

(May, 23/2009) Workshop on web applications' security.

Organization of a workshop on web applications' security in which were explained in detail many IT security flaws (e.g. vulnerable code, worst scenarios, scenario of attack/defence)

(March 2009) MediaShow.

Participation in the XI Olympiad on multimedia.

(2007/2009) GNU/Linux Day.

Collaboration with the GNU/Linux User Group of Catania through the national event on the GNU/Linux operation system and free software.

(October 2008) Workshop on electronic spy techniques.

Organization of a workshop on the main electronic spy techniques to date - Istituto Tecnico Industriale Statale "G. Ferraris" High School.

(2007) Conference on WiFi security flaws

Organization of an intensive workshop on WiFi security flaws - Istituto Tecnico Industriale Statale "G. Ferraris" High School, (Acireale) 3 days long.

(2007) Publication of the book "L'insicurezza dello standard IEEE 802.11"

Book that discusses the main intrusion techniques used to evade the security forms of WLANs.

Skill Details

IT Security

Penetration testing of **web applications** in Internet and Intranet networks.

Penetration testing of **standalone applications and network protocols**.

Vulnerability Assessment using open source software.

Security flaws' researching in open source and closed source software.

Security flaws' researching with **static source code analysis** in C/C++, Javascript, Ajax, Perl, PHP, ASP, SQL**.**

Malwares' source code analysis (virus, worms, rootkits).

Software developing for the automatic security flaws researching and testing (**fuzzers**).

Design and implementation of **secure networks**.

Developing of **exploiting** software.

Operating Systems

GNU/Linux: Debian, Ubuntu, Slackware, Gentoo, Suse.

OpenBSD: used mainly to design secure VPN networks.

Mac OSX Leopard: software developing and common use.

Microsoft Windows 98/2000/XP/2003/7: software developing and common use.

Programming Languages

Languages: **C** (in Unix-Like and Microsoft environments), **Visual Basic** and bases of **Assembly x86**.

Highlevel/Interpreted: basics of **Java** (development of graphical interfaces).

Scripting: **PHP** (wide knowledge, optimization, scalability, object-oriented programming, caching, web scraping), **Perl**, **AJAX**, **Javascript**, **Jquery** e **Bash scripting**.

Markup Languages: HTML 4.01, XHTML, CSS 2.0/3.0, XML 1.0.

Database: **SQL** (excellent on **MySQL**, good on **MSSQL** and **PostgreSQL**).

Frameworks and IDE

Zend Studio 8 Professional or newer: only for development of complex PHP projects.

Netbeans 6.8 or newer: only for development of Java code.

Wordpress 3.2.1 or newer: development of themes and plugins, code optimization, caching, SEO.

Software Development Techniques

Strong knowledge of **POSIX** and **ANSI** standards.

Good knowledge of **GPGPU Nvidia CUDA**.

Strong knowledge of the **W3C** standard.

Wide knowledge of the search engine optimization techniques (**SEO**). Strong experience in solving structural problems (**SEO On Page**) and popularity problems. Strong familiarity with **link building** techniques.

Networks and Services

Excellent skills in developing **high performance web platforms**, taking into account a

large number of rules such as **server-side caching** systems, source code **optimization**, **CDN**, etc.

Strong knowledge of design and implementation of **Ethernet and WiFi** secure networks.

Strong knowledge of **security problems in networks**, penetration testing techniques (mainly for WiFi networks), hardening of UNIX environments and firewalling systems (**Iptables**).

Good knowledge of infrastructures using public key authentication and of the ISO/OSI with particular reference to TCP/IP.

Good knowledge of administration, management and troubleshooting of **TCP/IP networks**.

Good ability in designing full and incremental backup policies for single and multiple workstations, using symmetric and asymmetric cryptographic ciphers.

Excellent experience with the following payment systems: **payment gateway**, for both credit cards (Mastercard, Visa, Visa Electron, American Express) and bank transfer, **PayPal**, **Moneybookers**, **Paysafecard**, **Ukash**, **Neteller**.

Developing platforms meeting the rules of **responsible gaming** as per the laws established by the Lotteries and Gaming Authority.

Good experience in the installation and configuration of **firewalls** in GNU/Linux (**iptables**).

Strong experience in the installation, configuration and administration of the most important network services, such as **HTTP, IRC, FTP, SSH, VPN, Samba,** etc., with cryptographics configurations for privacy.

Ability in configurating web servers with **caching** systems.

Excellent experience in creating, signing and installing the following **SSL certificates**: X.509 EV SSL, Wildcard SSL, SGC SSL, SAN / UC SSL, IP Address SSL. Experience in the installation and configuration of Apache service with **SNI support** for multiple SSL certificates for the same IP address.

Extensive experience in **online betting** systems (**italian top affiliate**). Strong capacity in developing software for displaying real-time scores, live streaming, real-time odds and other relevant information.

Wide knowledge of **web marketing** strategies and techniques.

Excellent knowledge of online social networks, in order to increase web visibility, and of **social media marketing** strategies and techniques.

Hobbies

I have practiced **Wushu Kung Fu** for 10 years. In these years I achieved the degree of first chen. I have participated and won **three gold medals** and one **silver medal** at the **world championships** in 2004 and 2006 – ZhengZhou, China.