



Flavio Toffalini

Curriculum Vitae

Education

- Sept 2012 **Master degree in Computer Science and Engineering**, *University of Verona*.
Oct 2015 108/110, GPA 3,9/4
- Dec 2009 **Bachelor's degree in Computer Engineer**, *University of Pavia*.
101/110, GPA 3,67/4

Work experience

- Aug 2016 **Research Assistant**, SINGAPORE UNIVERSITY OF TECHNOLOGY AND DESIGN (SUTD) (www.sutd.edu.sg), Singapore.
Cyber Security, Malicious insider detection
- Dec 2015 **Java Developer and Researcher**, JULIA S.R.L. (www.juliasoft.com), Verona.
Jun 2016 Static analysis of Android applications
- Detailed achievements:
- Static analysis over Java/Android applications
 - Java Developer
- Jan 2014 **Software Analyst and Developer of Web Application for marketing analysis**, OPEN
April 2015 SERVICE S.R.L. (www.openservicevr.com), Sommacampagna (VR).
Software Analyst and Developer of Web Application for marketing analysis
- Detailed achievements:
- Developer Web Application and Restful Service with in PHP (Zend Framework)
 - Analyst and Developer MySQL Database
 - Configure and integration AWS Service like SES in PHP Web Application
 - Configure LAMP System and Apache Server
- Jan 2010 **Software Analyst and Developer of Web Application, Shipment and Logistic Software**, PROJECT-SOFTWARE S.A.S. (www.project-software.it), Villafranca di Verona.
Dec 2013 Software Analyst and Developer of Web Application, Shipment and Logistic Software
- Detailed achievements:
- Developer Web Application and SOAP Service in ASP.NET
 - Analysis and Develop MSSql Database
 - Configure LAMP System and Apache Server
 - Developer web-site with Joomla and Wordpress

Publication

- 2016 **Google Dorks: Analysis, Creation, and new Defenses**, *Detection of Intrusions and Malware, and Vulnerability Assessment - 13th International Conference, (DIMVA) 2016*, Toffalini F, Abba' M., Carra D. and Balzarotti D..
- 2010 **REnvDB, a RESTful Database for Pervasive Environmental Wireless Sensor Networks**, *Distributed Computing Systems Workshops (ICDCSW), 2010 IEEE*, De Stefani F., Gamba P., Goldoni E., Savioli A., Silvestri D., and Toffalini F..

Additional professional experience

- Apr 2015 **Visiting fellow**, EURECOM (www.eurecom.fr), Sophia-Antipolis, France.
- Jul 2015 Topic: Google Dorks, design and development of innovative defence system. This work was the basis for my Master thesis
Supervisor: Dott. Davide Balzarotti
- May 2015 **Hackaton Competition**, GREENHACKATON, Biot, France.
Topic: Open-Data and Ecologic thematic. Our team was awarded with two Startup Summer School bonuses.
- Dec 2014 **Coder-Dojo**, Verona, Italy.
- Feb 2015 Participated in the Coder-Dojo group from Verona (www.coderdojovr.it) under the supervision of Prof. Alberto Montresor
- Oct 2013 **Carta Giovani**, Villafranca di Verona.
- Jan 2014 Carta Giovani is an association proposing educational activities to young people. Within Carta Giovani I have delivered a course on Basic Android Development of the duration of 10 lessons (2 hours each)
- Oct 2014 **Event-Lab**, Verona.
- Jan 2015 Event-Lab is a company that organizes on-demand courses and events. In collaboration with Event-Lab, I have delivered a course on Basic Android Development of the duration of 10 lessons (2 hours each)

Technical skills

- Advanced Linux, Microsoft Windows, Mac Machines, Server and Desktop
- Advanced Program language: Java, C++, C, Python
- Advanced JavaScript, PHP, CSS3, HTML5
- Advanced IDE like NetBeans, Eclipse, AndroidStudio, VisualStudio
- Advanced Framework PHP like Zend and Yii
- Advanced DMBS like MySQL, MSSQL, SQLite
- Intermediate LLVM, KLEE, IDA Pro
- Intermediate Android System, Parse, MongoDB, MapReduce and GoogleAPI

Oral presentations

- Oct 2012 High School C.Anti, Verona, Linux Day event "Creating apps with Android"
- Oct 2012 High School C.Anti, Verona, Linux Day event "Introduction to Arduino"
- Oct 2011 High School C.Anti, Verona, Linux Day event "Cloud computing: DropBox VS SparkleShare"

Languages

- Italian **Mother tongue**
- English **IELTS overall band score 6.0 (level B2)** *Conversationally fluent*

Interests

- CTF and challenge
- Martial Arts
- Trekking