

**María Emilia Torino**  
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## SUMMARY OF QUALIFICATIONS

Sr. Software Engineer with 8+ years of work experience. Broad technical knowledge and skills in the areas of software development, security development lifecycle and extreme programming practices. Known for excellence in problem-solving, teamwork, results orientation and high quality work. Technologies: AWS, Android, Java, Python, Ruby on Rails, C++.

## EDUCATION

- Carnegie Mellon University, Silicon Valley. Mountain View, California, USA.  
Master of Science in Software Engineering, GPA: 4.0. 2014.
- Universidad Tecnológica Nacional. Córdoba, Córdoba, Argentina.  
Licentiate (5-year degree) in Information Systems Engineering, GPA: 3.75. 2008.
- Universidad Tecnológica Nacional. Córdoba, Córdoba, Argentina.  
Information Systems Analyst, GPA: 3.75. 2007.

## PROFESSIONAL EXPERIENCE

**INTEL Software de Argentina. Córdoba, Córdoba, Argentina.** April 2015 - Present

*IoT Sr. Software Engineer*

- Contributing to the development of a multi-tenant, high available IoT Platform as a Service that securely connects and manages edge-devices in the cloud, including data collection and real time data processing (AWS, Docker, Java, Storm).

*IoT Argentina Security Lead*

- Contributing to the execution of the Security Development Lifecycle (SDL) process for the IoT platform releases. Security and privacy assessment and analysis covering the platform as well as the infrastructure. Threat Modeling, security findings identification, mitigation proposals and implementation. Security objectives and requirements definition, SDL policies and guidelines review and execution.
- Worked on proof of concept to implement Kerberos as the authentication mechanism for the platform internal components (Storm, Kafka, Zookeeper, hBase, HDFS). KDC created as an AWS instance.
- Conducted internal scan, including tools such as Docker Bench for security, McAfee Vulnerability Manager and Amazon Inspector. Currently planning internal Penetration Testing.

**Globant. Córdoba, Córdoba, Argentina**

Nov 2014 - April 2015

*Android developer*

- Contributed to the redesign of the Android application for Apartments.com account. External Login implementation with Google+ and Facebook SDKs; build system migration from Maven to Gradle; Google Analytics integration, including custom configurations such as dimensions and metrics.

**Carnegie Mellon University. Mountain View, California, USA.**

Aug 2013 - Aug 2014

*Graduate Student*

- TrailScribe - NASA. <http://youtu.be/yAZJBVlnGfl>. Contributed to the design and development of an open source Android mapping application to be used as an electronic notebook to collect, share and view information in remote environments. It will be evaluated as part of the NASA FINESSE project field geology and may eventually lead to space missions. (Android, JUnit).
- Contributed to the design and development of an Android application based on the CMU Sensors Data As a Service Platform with the purpose of understanding and defining the services the platform should provide (Android, JUnit, Robolectric).

- Whiteboard <http://whiteboard.sv.cmu.edu/>. Contributed to the design and development of an improved grading queue for CMU faculty. (Ruby on rails, Capybara, FactoryGirl)

## **INTEL Software de Argentina. Córdoba, Córdoba, Argentina.**

Oct 2007 – Aug 2013

### *Software Engineer. 2008 - 2013.*

- Contributed to the development of the Intel® Services Manager (ISM), a multi-platform user device side agent acting as the client component of a services platform. Used across Intel product line (C++).
- Contributed to the refactoring and redesign of ISM to become the Intel® Update Manager (IUM). Moving from C++ to Python, using strong object oriented principles and Extreme Programming practices (TDD, BDD, Continuous Integration, Pair Programming).
- Managed the Security Development Lifecycle (SDL) process along ISM and IUM releases.
- Collaborated to the execution of the SDL process on other Intel products.
- Developed a proposal to adapt SDL to the Intel software agile methodology.
- Certified Secure Code Development trainer.

### *Software Engineer Intern. 2007 - 2008.*

- Proposed and implemented a solution for the XSS attack based on a Mozilla SpiderMonkey engine patch and the Data Tainting mechanism as part of a Security in the Web 2.0 project.

## **CONFERENCE PAPERS AND PUBLICATIONS**

- “*Coding for security*” - *Methodologies to develop secure software*. RIO. Escuela de verano de ciencias informáticas. Rio Cuarto, Córdoba, Argentina. February 16, 2012.
- “*Developing Secure Software: a practical approach*”. Marcelo da Cruz Pinto, Maria Emilia Torino. 40 Jornadas Argentinas de Informática (JAIIO). Córdoba, Córdoba, Argentina. August 31, 2011.
- Member of the scientific committee at 3rd Information Security Workshop. 40 Jornadas Argentinas de Informática (JAIIO). Córdoba, Córdoba, Argentina. August 31, 2011.
- “*Privacy-Aware Device Identifier through a Trusted Web Service.*” - Marcelo da Cruz Pinto, Ricardo Morin, Maria Emilia Torino, Danny Varner. International Conference on Service Oriented Computing (ICSOC) 2010. San Francisco, CA, USA. December 7-10, 2010.

## **COURSES**

- Attended (not certified) SANS 660. Advanced Penetration Testing, Exploit Writing, and Ethical Hacking. 2012
- Attended (not certified) SANS 560. Network Penetration Testing and Ethical Hacking. 2011

## **PATENTS AND PATENTS APPLICATIONS**

- US Patent Application 20100250949 “GENERATION, REQUESTING, AND/OR RECEPTION, AT LEAST IN PART, OF TOKEN.” - Ricardo Morin, Juan Marcelo Da Cruz Pinto, **Maria Emilia Torino**, Jesse Walker, Filed March 31, 2009.

## **RECOGNITIONS/HONORS/MEMBERSHIPS**

- Member of The Honor Society of Phi Kappa Phi, the third academic society in the United States restricted to students (by invitation only) with integrity and high ethical standards and who are ranked scholastically in the top 10 percent of seniors and graduate students. March 2014.
- Fulbright Scholar. U.S. State Department’s 100,000 Strong in the Americas initiative. Argentine Presidential Fellowship in Science & Technology-Fulbright Commission. BEC.AR program. Aug 2012.
- Member of the IEEE Women in Engineering.
- ESET - Universidad Tecnológica Nacional (23 campus) contest first winner. The paper "Internet Social Engineering" awarded a trip to Ottawa to attend the 18th edition of the Virus Bulletin International Conference. Oct 2008.