

Jose Pablo Alberto Andreotti

(54) 351-4730292 albertoandreotti@gmail.com (54) 351-155937792

Personal Information

Nationality, Argentinian/Italian.

Address, 552, Emilio Castelar Street, Córdoba. Argentina.

Education

Distributed Systems, MSc.

Famaf, University of Córdoba, 2009.

Average Grade: 8.87/10.

Final Project: High Scalable Scientific Computing using Hadoop, found [here](#).

Computer Engineer, MSc.¹

Engineering Faculty, University of Córdoba, 2007.

Average Grade: 8.14/10.

Thesis: Building a dual core JVM for embedded realtime systems, found [here](#).

High School at Colegio Corazón de María

Management Oriented School, 2000.

Average Grade: 8.22/10.

Professional Experience

2010 to present Sr. Software Engineer at Intel Corp.

- ▷ Development in C/C++ and Java in Windows and Android.
- ▷ Development of Web Services in Python/Django and Scala/Akka.
- ▷ Development of a distributed graph database for query graph processing.

2008 to 2010 Software Engineer at Motorola.

- ▷ Development of embedded software in C/C++ for Cable Modem products.

2006 to 2008 Research Internship, Computer Architecture Lab, UNC.

- ▷ Optimization of Scientific programs over computer clusters and parallel programming with MPI, HPF and OpenMP.
- ▷ Software development and testing in C/C++.

2007 Self-employed in Software Optimization.

I worked in projects involving the optimization of scientific applications in multiprocessor systems.

2007 Testing of the JOP processor and JDK.

I worked testing JOP(Java Optimized Processor) for Dr. Martin Schoeberl from TU Wien.

¹This degree is the equivalent to the European Master level, it is obtained through 5 years of course work and 1 year of research. The Argentinian name is "título de grado".

Additional Coursework

- ▷ Functional Programming Principles in Scala, Martin Odersky. Ecole Polytechnique Federale de Lausanne, December of 2013. [Link here](#).
- ▷ Image and video processing: From Mars to Hollywood with a stop at the hospital, Guillermo Sapiro, Duke University, first semester of 2013. [Link here](#).
- ▷ Digital Signal Processing, Paolo Prandoni and Martin Vetterli, Ecole Polytechnique Federale de Lausanne, first semester of 2013. [Link here](#).
- ▷ Machine Learning², Andrew Ng, Stanford University, first semester of 2012. [Link here](#).
- ▷ High Performance Computing: Models, Methods and Means³, first semester 2010.
- ▷ The Semantic Web, PhD Jorge Cardoso, SAP Research Germany, first semester of 2009.
- ▷ Introduction to Radar Signal Processing, Msc Oscar Bria, INVAP, second semester of 2009. Syllabus.
- ▷ Performance and Scaling in E-Commerce Systems WS, Alex Buchmann, second semester of 2008. Syllabus.

Scholarships and Awards

- ▷ Fulbright Master Scholarship. Given by the US Embassy in Buenos Aires and the Fulbright Comission.
- ▷ Grant earned for the completion of the Thesis Project. Given by the Science Agency of Córdoba, 2006.
- ▷ Distinction to the best average grade. Given by the College of Engineering of Córdoba, 2007.

Publications

- ▷ Infrastructure for enabling fast machine learning application prototyping in the cloud. Intel SWPC, Guadalajara, MX, 2013.
- ▷ I contributed to DeepLearnToolbox, an open source Deep Learning toolbox written in Matlab. I added features to the CNN⁴ part of the toolbox and added an example for Spoken Language Classification⁵
- ▷ Recommendations for Movies using Distributed Pattern Matching. Intel SWPC, Córdoba, AR, 2013.
- ▷ Optimization of an hydrodynamical bi-dimensional model. ENIEF, Congress on Numerical Methods and their Applications, 2009, [link](#).
- ▷ Using JOP to build a chip multiprocessor JVM for embedded realtime systems. Annals of CACIC, 2007.

Programming Experience

- ▷ Development of embedded Software in C/C++, and Java.
- ▷ Experience on mobile platforms such as Android and iOS.
- ▷ Experience with RESTful Web Services on Python/Django and Scala/Akka/Play.
- ▷ Test Development in Bash/Python/Java.

²This is the online version of the course.

³Unstructured Postgraduate, and Graduate Course, Fa.M.A.F. Sincronized with Prof. Thomas Sterling's CSC7600.

⁴Convolutional Neural Network.

⁵Based on the research found in this paper

- ▷ Experience in Linux Drivers development.
- ▷ Experience working with AWS EC2.
- ▷ Experience in profiling and performance optimization.
- ▷ Deep knowledge of computer architectures, and assembly programming.

Languages

Spanish

- ▷ Native Spanish speaker.

German

- ▷ Currently attending the third year of a four year course in German at the School of Languages of the National University of Córdoba.

English

- ▷ TOEFL iBT. Outcome 109 out of 120, November 2010.
- ▷ TOEFL iBT. Outcome 110 out of 120, March 2008.
- ▷ First Certificate Examination grade B. Given by Cambridge University, 2000.
- ▷ Several courses attended from 1992 to 2000.

Italian

- ▷ Four years course at the School of Languages of the National University of Córdoba, 2008.

French

- ▷ One year course at "Alliance Française Córdoba", 2000.

Teaching Experience

Concurrent Programming

Computer engineering faculty, 2004.

Calculus Tutor

Electronic and Computer engineering faculty, 2003.

Conferences attended as a lecturer

Intel Software Professional Conference, 2013.

Title: Prototyping Machine Learning Apps in the Cloud.

ENIEF, Congress on Numerical Methods and their Applications, 2009.

Title: Optimization of an hydrodynamical bidimensional model.

Second Open Conferences in Computer Engineering, National University of Córdoba, 2008.

Title: Parallel Programming.

First Open Conferences in Computer Engineering, National University of Córdoba, 2007.

Title: A multiprocessor JVM based on JOP.

XIII Argentinian Congress on Computer Science, 2007.

Article's Title: Using JOP to build a chip multiprocessor JVM for embedded real-time systems.

Hobbies

- ▷ Trekking.
- ▷ Cooking and beer brewing.