Jose Pablo Alberto Andreotti

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Personal Information

Nationality, Argentinian/Italian.

Birth date, October 8, 1982.

Birth place, Pico Truncado, Santa Cruz Provice, Argentina.

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.

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 Learning[2], Andrew Ng, Stanford University, first semester of 2012. Link here.
▷ High Performance Computing: Models, Methods and Means[3], 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.

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[1]This 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".

[2]This is the online version of the course.

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

▷ Performance and Scaling in E-Commerce Systems WS, Alex Buchmann, second semester of 2008. Syllabus.

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 CNN[4] part of the toolbox and added an example for Spoken Language Classification[5]

▷ 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.

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.

Scholarships and Awards

▷ Distinction to the best average grade. Given by the College of Engineering of Córdoba, 2007.

▷ Grant earned for the completion of the Thesis Project. Given by the Science Agency of Córdoba, 2006.

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[4]Convolutional Neural Network.
[5]Based on the research found in this paper

Professional Experience

2010 to present	**Sr. Software Engineer at Intel Corp.**
	▷ Worked in a Context Awareness and Inference Engine.
	▷ Worked in a project for Data Mining as a Service.
	▷ Development of Web Services and Embedded platform software.
2010	**Member of the Computer Engineering Council at National University of Córdoba.**
2008 to 2010	**Software Engineer at Motorola.**
	▷ Development of telecommunications software 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.
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++.

Programming Experience

▷ Develpment 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.
▷ Low level programming of Digital Signal Processors in C/Assembly.

Teaching Experience

Concurrent Programming TA
Computer Engineering faculty, National University of Cordoba, 2004.
Multivariate Calculus TA
Electronic and Computer Engineering faculty, National University of Cordoba, 2003.

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.