Curriculum Vitae

Pablo Rodríguez Monetti

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Personal Information

Name:	Pablo Rodríguez Monetti
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Nationality:	Argentine
Date of Birth:	20/06/1983
Place of Birth:	Rosario, Argentina
Marital Status:	Domestic Partner

Work Experience

04/2016 - **Development Lead**
Endava

✓ Research, design, and development of connectors for the AtomSphere platform, owned by Dell Boomi. The system provides data integration capabilities in the cloud, supporting +100 million executions per day, connecting with a wide range of external APIs or services.
Technologies: Java 8, Maven, REST APIs, Google API libraries, Git, Jira, Crucible.

✓ Java interviewer for the Development Discipline of Endava.

03/2012 - 04/2016 **Software Engineer**
Plantium (http://plantium.com/en/)

✓ Architecture design, development, and deployment of an advanced precision agriculture display. The system has a multi-touch screen, was built as a set of Linux applications running on an ARM platform, and is able to interact with external steering and spraying modules as well as with GPS receivers.
Technologies: C/C++, Qt, QML, JavaScript, MySQL, Linux, Bash Scripting, Git.

✓ Development of a web admin application for hub devices manufactured by the company. Those systems were responsible for propagating differential GPS (DGPS) corrections over large field areas, requiring them to provide remote access.
Technologies: PHP, jQuery, JavaScript, HTML, CSS, OpenWRT, NTRIP, Git.

✓ Development of a Windows desktop application conceived for converting maps from a binary proprietary format, designed by the company, to

Shapefile, an open standard for storing geometric location and associated attribute information.
Technologies: C/C++, Qt, Git.

03/2007 - 04/2016 **Teaching Assistant**
Licentiateship of Computer Science - Faculty of Exact Sciences, Engineering and Land Surveying - National University of Rosario - Argentina.

✓ Teaching of the courses *Programming I* and *Programming II*, which have included the following topics: propositional and predicate calculus, functional programming paradigm, specification and verification of functional and imperative programs, basic practical courses of Haskell, Pascal, Python and C programming languages.

08/2014 - 07/2015 **Frontend Developer**
Cabrillo Coastal General Insurance Agency (via Beyond Ordinary Solutions and MiracleDevs)

✓ Development of the frontend application for an insurance solution that manages the customer data of each insurance producer registered in the system. The solution also provides dynamic interview forms whose structure depends on rules defined at the application's server-side.
Technologies: AngularJS, JavaScript, HTML, Git.

06/2011 - 03/2012 **Software Engineer, Researcher**
Leapsight (via Tecso)

✓ Research and development of a framework prototype that grouped innovative ideas related to semantic web, cloud computing, and business intelligence.
Technologies: Erlang/OTP, Nitrogen Web Framework, GNU Make, Git.

03/2007 - 06/2011 **Software Engineer, Researcher**
Flowgate Consulting

✓ Research, architecture design and development of Fastest (http://en.wikipedia.org/wiki/Fastest), a Java tool that automates the model-based testing of applications specified using the Z notation, a formal specification language.
Technologies: Java, Bash Scripting, LaTeX, SVN.

✓ Software architecture and coding consulting at local companies and institutions.
Technologies: Java, C/C++.

08/2010 - 12/2010 **Professor**
Centro Universitario de Firmat, Firmat, Argentina

✓ 6-months course on Java basics and Object-Oriented Programming (OOP).

07/2006 - 10/2006 **Web Developer**
Faculty of Exact Sciences, Engineering and Land Surveying - National University of Rosario - Argentina.

✓ Design, development and deployment of the PAMEM project's website, related to the improvement of mathematics and physics teaching at Argentine high schools.
Technologies: HTML, CSS, Javascript.

Education

2001 - 2009 **Licentiateship in Computer Science (five-year duration)**
Faculty of Exact Sciences, Engineering and Land Surveying, National University of Rosario, Argentina.
Grade point average: 9.60 / 10.

1996 - 2000 **High School Degree with specialization in Electronics**
Polytechnic Institute Superior, Rosario, Argentina.

Publications

✓ Maximiliano Cristiá, Pablo Albertengo, Claudia Frydman, Brian Plüss and Pablo Rodríguez Monetti. **Tool support for the Test Template Framework** (http://www.fceia.unr.edu.ar/~mcristia/publicaciones/fastest-stvr.pdf). Software Testing, Verification and Reliability, 24(1):3-37, 2014.

✓ Maximiliano Cristiá, Diego Hollmann, Pablo Albertengo, Claudia Frydman and Pablo Rodríguez Monetti. **A Language for Test Case Refinement in the Test Template Framework** (http://www.fceia.unr.edu.ar/~mcristia/publicaciones/refinement-ttf.pdf). In Formal Methods and Software Engineering, 13th International Conference on Formal Engineering Methods, ICFEM 2011, Durham, UK, October 26-28, 2011.

✓ Maximiliano Cristiá, Pablo Albertengo, Claudia Frydman, Brian Plüss and Pablo Rodríguez Monetti. **Applying the Test Template Framework to Aerospace Software** (http://www.fceia.unr.edu.ar/~mcristia/publicaciones/aerospace-mbt.pdf). In Proceedings of the 34th IEEE Annual Software Engineering Workshop, 2011, Limerik, Ireland.

✓ Maximiliano Cristiá, Pablo Albertengo and Pablo Rodríguez Monetti. **Fastest: a Model-Based Testing Tool for the Z Notation** (http://www.fceia.unr.edu.ar/~mcristia/publicaciones/fastest-demo.pdf). In 8th IEEE International Conference on Software Engineering and Formal Methods (SEFM), 2010. Posters and Tool Demo Session Track. Pisa, Italy.

✓ Maximiliano Cristiá, Pablo Albertengo and Pablo Rodríguez Monetti. **Pruning Testing Trees in the Test Template Framework by Detecting Mathematical Contradictions** (http://www.fceia.unr.edu.ar/~mcristia/publicaciones/fastest-prunett.pdf). In 8th IEEE International Conference on Software Engineering and Formal Methods (SEFM), 2010. Pisa, Italy.

✓ Maximiliano Cristiá and Pablo Rodríguez Monetti. **Implementing and Applying the Stocks-Carrington Framework for Model-Based Testing** (http://www.fceia.unr.edu.ar/~mcristia/publicaciones/FastestPaper.pdf). In Formal Methods

and Software Engineering, 11th International Conference on Formal Engineering Methods, ICFEM 2009, Rio de Janeiro, Brazil, December 9-12, 2009.

Certifications

✓ Certified Scrum Master (Scrum Alliance - May 2017)
✓ Cambridge English: First (FCE) (University of Cambridge, UK - December 2003)

Languages

✓ Spanish: Native

✓ English: Advanced
*First Certificate in English (*December 2003)
Examinations in English as a Foreign Language
University of Cambridge, UK

References

✓ **Maximiliano Cristiá**. Adjunct Professor and Researcher at the Computing Science Department of the Faculty of Exact Sciences, Engineering and Land Surveying - National University of Rosario - Argentina. Co-founder of Flowgate Security Consulting.
E-mail: mcristia (at) fceia.unr.edu.ar

✓ **Nicolás Badano**. CEO of MiracleDevs.
E-mail: nicobadano (at) gmail.com

✓ **Pablo Mata**. Software Engineer at Workday. Manager and Software Architect at Forkworks until June 2015.
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