José María Balmaceda

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Graduated from UNICEN University, PhD in Computer Sciences and Software Engineering. Focused in the novel problem resolution, motivated by the challenge. Fun of learning new technologies and, above all, sharing the knowledge.
If you have a problem to solve, you have my attention.

Key Work Experiences

2015 – present	**Software Architect** at Technisys.
2016 - present	**Software Architect** at Pladema.
2015 – 2018	**CTO & Co-Funder** at ORCO.
2009 – 2016	**Teaching assistant at Facultad de Ciencias Exactas, UNICEN University**, Tandil, Buenos Aires, Argentina. Courses: Programación Orientada a Objetos, Programación Exploratoria, Inteligencia Artificial, Análisis y Recuperación de Información.
2012 – 2015	**Research Category V** by the Incentive Program of Secretaría de Políticas Universitarias, Ministerio de Educación, Argentina.
2007 – 2015	**ISISTAN Member**, Instituto Superior de Software Tandil, CONICET-UNICEN, Tandil, Buenos Aires, Argentina.

Education

Degrees

2010 – 2015	**Phd in Computer Sciences, UNICEN University, Tandil, Buenos Aires, Argentina.** Advisors: Prof. Phd. Silvia Schiaffino y Prof. Phd. Daniela Godoy - Thesis title: "Adquicisión Automática de Perfiles de Usuario para Trabajo Colaborativo Soportado por Computadoras". August 28 2015. **Graduated with honors** *(Summa cum laude* **recognition) (Resolution 096/16).**
2005 – 2010	**Software Engineering, UNICEN Univerisity, Tandil, Buenos Aires, Argentina.** Advisors: Prof. PhD. Silvia Schiaffino y Mg. Patricio Garcia - Thesis title: "Detección Automática de Roles de Equipo en sistemas CSCW". March 26 2010.

Languages

English	Upper Intermediate
Espanish	Native

Work Experiences

	2007-14	2015	2016	2017	2018	2019	2020	2021
Java				✓				
Spring Framework		✓	✓	✓	✓	✓	✓	✓
Data Mining	✓						✓	✓
Soap (CXF, WSDL, SoapUI)		✓	✓	✓	✓	✓		✓
Rest (spring-web, Swager, Postman)			✓	✓	✓	✓	✓	✓
NoSql (CouchDB, Cassandra, Redis)			✓	✓	✓	✓	✓	✓
Azure Cloud						✓	✓	✓
Message Brokers (JMS, Kafka)		✓	✓	✓	✓	✓	✓	✓
Spark, ML Tools							✓	✓

Technisys (2015 - present)

Team member of different product teams. In Techinsys, almost all teams are clussified in two types: product or project. Product team are those who implement or develop over some of the product/components. Project ones are those who adapt or install these products to fit with an specific bank requirement.

Below, all teams I was part together with main languages and frameworks used.

RCCP (2021 - present)

Member of the Core Technical team with the rol of *Architect* in charge of identifing improvement opportunities, solve recurrent problems by applying novel solutions, and design a new version of this product taking into account all our stakeholders and their needs.

Languages: Java 8 & 11

Tools & Frameworks: Spring-boot, Spring-jpa, JUnit, Soap, Rest, Maven, Docker, Kubernetes, Azure DevOps, Redis, Kafka, JMS (RabbitMQ)

AIDA (2020 - 2021)

Member of the *Artificial Intellingence and Data Analytics* team in charge of providing Machine Learning and big-data processing capabilities in the Cyberbank platform. As a *Data Architect*, I was in charge of designing and implementing the bases of an achitect that provides support to all those phases in the data processing for new functionalities that make use of ML algorithms or generate customer insights from the big-data processing. In the same team, as a *Software Achitect*, in charge of exposing all these new capabilities through a set of microservices.

Languages: Python, Java 8 & 11

Frameworks: PySpark, Spring-boot, Spring-jpa, JUnit, Rest, Maven, Docker, Kubernetes, Azure DevOps, Apache Spark, Azure Databricks, Azure Data Factory, Azure Data Lake, Azure Blob Storage, MLFlow, Scikit Learn.

Omnichannel-services (2015-2019)

Member of the team focused in the development of a omnichannel solution to banks and finantial institutions. In the first two years as *Software developer* I focused in the develop of new functionalities in existing components. Then, as *Software Architect*, with the responsability of design and implement new components that help banks to increase TPS and the same way, have more customers in the platform.

Languages: Java 6 & 7

Tools & Frameworks: CXF, Soap, Jenkins, Spring, Hibernate, JSP, Maven, ESB, BPM Camunda, Redis, JMS (ActiveMQ).

Pladema (2016 - present)

Team member of different teams, commonly at the begginig of the project in charge of the architecture design or implementing some new functionalities, but also in other cases, helping in the resolution of non-trivial problems. Commonly, at the beginning of a new project, after the backbone was designed and implemented and all developers were trained by me to continue alone, my role was mainly as consultant.

Languages: Java 8, C#

Tools & Frameworks: Spring-boot, Spring-jpa, Spring-security, Spring-acl, JUnit, Rest, Maven, Cassandra, CouchDB, Kafka, Redis, Hazelcast.

CTO at ORCO (2015-2019)

Orco (http://www.criterya.com/orco/) is a product that analyses the behaviour of possible shoppers in front of gondolas or in a hall in a no-invasive way. ORCO provides a set of indications that can be useful to retail and advertising, between others.

Orco Solution is composed by a set of components thinked to improve results in the distinct phases of incation recognitions:

- Orco Detector: programmed with C++ language to capture and process data from kinect sensor, and send it to MySql database.

- Orco PostProcessor: programmed with Java to pos-process and polish detections.

- Orco Web: programmed with Java to visualize graphics and stadistics.

Other Practical Experiences

Project	Description
Scientific Searcher	Main responsibilities included back-end development of the Scientific Searcher. Natural Language Processing Tools were used to recognize and filter Web Pages by institutes, people or places.
CSCW Application	Computer Soported Collaborative Work Web Application that let users distributed work by using a set of collaborative tools. Data Mining (decision trees, association rules, bayesian networks, sopported vector machines) and Natural Language Processing Tools (Stanford CoreNLP Tool) were used in this Application as part of phd thesis evaluation.
Text Classifier	Classifier developed as part as phd thesis evaluation that identify emisor intention from natural language text (ask, summarize, affirm, refuse, thank, acknowledge, between others). This classifier used a set of features obtained by NLP tools, was integrated in Weka Framework and got better results than state of the art text classifiers.

Other Skills

Data Mining	Great theorical and practice experiences in the application of Data Mining techniques, including preprocessing, feature creation and selection, learning and evaluation phases. Some tools used were: WEKA, KNIME, RapidMiner.
NLP	Great theorical and practice experiences in the used of NLP tool in combination with Data Mining techniques. Some tools used were: lexical, sintactic and semantic analyst tool from Stanford CoreNLP.

Complementary Courses

2020	Big Data Fundamental with PySpark - www.datacamp.com - Technisys
2020	Cleaning Data with PySpark - www.datacamp.com - Technisys
2020	Feature Engineering with PySpark - www.datacamp.com - Technisys
2020	Introduction to PySpark - www.datacamp.com - Technisys
2016	Angular 2 + Spring - www.udemy.com - Technisys
2016	Angular 2 - www.udemy.com - Technisys
2015	Technical Analyst - Tech-University - Technisys
2015	Functional Analyst - Tech-University - Technisys
2012	Análisis y Recuperación de Información - Dictado por Prof. Dra. Daniela Godoy - Facultad de Ciencias Exactas, UNCPBA.
2012	Introducción a Grid Computing - Dictado por Prof. Dr. Alejandro Zunino - Facultad de Ciencias Exactas, UNCPBA.
2012	Herramientas para el Desarrollo de Aplicaciones en Internet: Comercio Electrónico y Computación Móvil - Dictado por Prof. Dr. Alejandro Zunino - Facultad de Ciencias Exactas, UNCPBA.
2012	Métodos Ágiles para el Desarrollo de Software - Dictado por Prof. Dra. Claudia Marcos - Facultad de Ciencias Exactas, UNCPBA.
2012	Módulo II de Redacción de Papers en Inglés (duración: 16hs). Prof. María Victoria González Eusevi. UNCPBA.
2011	Redacción de Papers Científicos en Inglés (duración: 18hs). Prof. María Victoria González Eusevi. UNCPBA.
2010	Estudio de Mercado y Plan de Negocios. Lic. Fernando Horigia. Subsecretaria de Vinculación Tecnológica de la Secretaria de Ciencia, Arte y Tecnología de la UNCPBA.

Publications

Jounarls and Magazines

2015	José María Balmaceda, Silvia Schiaffino, and Daniela Godoy. Redes bayesianas para detección de roles de equipos en aprendizaje colaborativo soportado por computadoras. *Revista Teknos*, 15:43–51, 2015
2014	José María Balmaceda, Silvia Schiaffino, and J. Andres Diaz-Pace. Using constraint satisfaction to aid group formation in CSCL. *Inteligencia Artificial. Revista Iberoamericana de Inteligencia Artificial*, 17(53):35–45, 2014
2013	José María Balmaceda, Silvia Schiaffino, and Daniela Godoy. How do personality traits affect communication among users in online social networks? *Online Information Review*, 38(1):136–153, 2013
2013	Patricio García, José María Balmaceda, Silvia Schiaffino, and Analía Amandi. Automatic Detection of Team Roles in Computer Supported Collaborative Work. *IEEE Latin America Transactions*, 11(4):1066–1074, 2013

Conferences Proceedings

2013   José María Balmaceda, Silvia Schiaffino, and Daniela Godoy. Bayesian networks for team role detection in CSCL. In *Congreso Internacional de Ambientes Virtuales de Aprendizaje Adaptativos y Accesibles, CAVA 2013*, San Juan, Argentina, 2013

2013   Antonela Tommasel, José María Balmaceda, Daniela Godoy, and Silvia Schiaffino. On the relationship of writing style, gender and personality in social texts: MySpace Case Study. In *Congreso de la Mujer Latinoamericana en la Computación (LAWCC)*, 2013

2010   José María Balmaceda, Patricio García, and Silvia Schiaffino. Detección Automática de Roles de Equipo. In *39JAIIO - ASAI*, pages 235–238, 2010

Reports

2016   José María Balmaceda. Notifications: The rigth balance between content and context. White paper, Technisys, 2016 (https://goo.gl/QuJnpS)

References

[1] José María Balmaceda, Patricio García, and Silvia Schiaffino. Detección Automática de Roles de Equipo. In *39JAIIO - ASAI*, pages 235–238, 2010.

[2] José María Balmaceda, Silvia Schiaffino, and J. Andres Diaz-Pace. Using constraint satisfaction to aid group formation in CSCL. *Inteligencia Artificial. Revista Iberoamericana de Inteligencia Artificial*, 17(53):35–45, 2014.

[3] José María Balmaceda, Silvia Schiaffino, and Daniela Godoy. Bayesian networks for team role detection in CSCL. In *Congreso Internacional de Ambientes Virtuales de Aprendizaje Adaptativos y Accesibles, CAVA 2013*, San Juan, Argentina, 2013.

[4] José María Balmaceda, Silvia Schiaffino, and Daniela Godoy. How do personality traits affect communication among users in online social networks? *Online Information Review*, 38(1):136–153, 2013.

[5] José María Balmaceda. Notifications: The rigth balance between content and context. White paper, Technisys, 2016.

[6] José María Balmaceda, Silvia Schiaffino, and Daniela Godoy. Redes bayesianas para detección de roles de equipos en aprendizaje colaborativo soportado por computadoras. *Revista Teknos*, 15:43–51, 2015.

[7] Patricio García, José María Balmaceda, Silvia Schiaffino, and Analía Amandi. Automatic Detection of Team Roles in Computer Supported Collaborative Work. *IEEE Latin America Transactions*, 11(4):1066–1074, 2013.

[8] Antonela Tommasel, José María Balmaceda, Daniela Godoy, and Silvia Schiaffino. On the relationship of writing style, gender and personality in social texts: MySpace Case Study. In *Congreso de la Mujer Latinoamericana en la Computación (LAWCC)*, 2013.