SANTIAGO BRAGAGNOLO

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BIOGRAPHIC DATA

Complete name Santiago Pablo Bragagnolo

Birth date 16 november 1982 Nationalities Argentinian, Italian

EU eligibility YES

CONTACT

Skype santiago.bragagnolo

Linkedin linkedin.com/in/santiagobragagnolo/

Portfolio santiagobragagnolo.info

Blog knowledgeconvergence.wordpress.com

Github github.com/sbragagnolo

SmalltalkHub smalltalkhub.com/#!/ sbragagnolo

INRIA POSITION RELATED: BRIEF OF DOMAINS

Robotics2 yearsInternet of things2 yearsUser experience (AKA human-machine interaction)12 yearsGamification (Specific way of UX)1 yearSoftware design, quality and maintenance12 years

INRIA POSITION RELATED: BRIEF OF COMPETENCES

Languages Pharo Smalltalk, Java, Javascript, Scala, C++

Technologies Unix, ROS, SQL, NoSQL, REST, JSON, XML, Multiple-cores

Microcontroller programming Arduino

Versioning tools SVN, GIT, Mercurial

Continuous integration Jenkins

Testing TDD 8 years experience

Testing Tecnologies SUnit, JUnit, Selenium, ScalaTest

Design Patterns 7 years experience

Working in multidisciplinary team 2 years

EXPERIENCE BRIEF

Software Industry experience11 yearsResearch experience (Robotics)2 yearsEffective engineering study3.5 yearsTeaching programming on university5 years

TECHNICAL STRENGTHS

Paradigms Object Oriented, Functional

Languages Pharo, Scala, Java, C/C++, Javascript
Application Middleware Tomcat, JBoss, Google App Engine

Message Oriented Middleware DDS, ROS

MVC FrameworksSeaside, SpringMVC, Grails, Play2Web Client FrameworksBackbone.js, Underscore.js, JQuerySQL DatabasesMySQL, PostgreSQL, Oracle, SQLServer

NO-SQL Databases MongoDB, BigTable, Db4o

Versioning Metacello, Monticello, SVN, GIT

Building Make, Maven

Processing Architectures Multithreading, Multiprocesses, Real time

Software Architectures REST, Service, Client & Server, Data Processing (ETL), Actors

Quality/Testing SUnit, JUnit, Jenkins

IDEs Pharo, Squeak, Dolphin, Eclipse, Netbeans

Operative system Ubuntu/Debian Linux, CentOS Linux / Redhat enterprise

METHODOLOGY STRENGTHS

Working methodologies Agile, KanBan, XP, Pair programming

Software design Domain Driven Design

Quality assurance Continuous Integration, Continuous Delivery

Development Test driven development, Behaviour driven development, Lean development

LANGUAGES

Spanish Native

English Written and spoken fluent competence
French Written and spoken medium competence

CURRENTLY WORKING ON

On my own

December 2014 - Currently

Robots-du- $Nord\ project$

Robots du nord is project about robots development, starting in a first stage of learning how to design and develop hardware and software for robotics and domotics domains.

Pre startup prototyping

- · Business model definition
- · Content writing
- · Technology development

On my own

October 2014 - Currently

MetaDDS/SimpleDDS

Skeleton and canon implementation of a Data Delivery Service (publisher/subscriber) framework and it full ROS and Pharo smalltalk specific implementation. Based on ROS standard and OMG-DDS standard.

Using for development Pharo 3.0

- · You can checkit out from:
- · http://smalltalkhub.com/#!/sbragagnolo/MetaDDS

· http://smalltalkhub.com/#!/sbragagnolo/SimpleDDS

On my own

Feburary 2014 - Currently

TaskIT

Maintaining and enhancing TaskIT with Guillermo Polito

TaskIT had born and grow during the development of PhaROS during my job at Ecole des mines, and it was mean to be object oriented, easy to use, and with powerful, well tested, simple and reliable processing abstractions, in order to serve in a real-time processing environment.

- · As well it provides some experimental functionalities for process understanding as the plan definition.
- · We are currently working on Task-IT 2.0, which will have a great new suit of concept for process management
- · You can checkit out from:
- · http://smalltalkhub.com/mc/sbragagnolo/TaskIT/main

INDUSTRY AND RESEARCH EXPERIENCE

Ericsson

May 2014 - September 2014

Malaga, Spain

Senior Java and C++ developer

- · Design and development of a troubleshooting solution for mobile telephone networks
- · ERA (Ericsson ran analyzer) Project. C++ and Java based high-performance client, based on data analysis and complex visualizations over a GIS Map.
- · TPS (Trace processor server) Project. Java high-performance server for trace processing (system that faces problems of teras of data) with some IronPython for processing text files, with part of processing over hadoop and hive.
- · ODG (OSS Data gateway) Project. Project that analyze data from OSS servers. Also Java high-performance server.
- · All of these project are highly Multithreaded and based on distributed processing.
- · The data containers of these project are based on Hadoop File system.
- · Most of the data processed is reduced and stored into the client mapping data from several servers with workflow processing. (Based in ETL pattern)
- · TDD and Continuous delivery evangalizer.
- · Working under Agile with Scrum methodology
- · Contact reference: Jose Antonio Hurtado +34 670 42 66 01; joseantonio.hurtado@gmail.com

Ecole des mines de Douai

September 2012 - February 2014 Douai, Nord-Pas-de-Calais

Software Research Engineer, Robotics

- · Design and development of the project RoboShop (http://car.mines-douai.fr/RoboShop), a robotic system for aiding persons to navigate into unknown spaces.
- · My responsibilities are planning, engineering, development and technologic report writing for the projects RoboShop and PhaROS (http://car.mines-douai.fr/PhaROS).
- · PhaROS is a framework for developing robot solutions for Pharo Smalltalk on the robotic middleware ROS. It implements a real time distributed architecture.
- · The project RoboShop was presented in Picom and Vad Conext 2013 (Some content about http://car.mines-douai.fr/2013/11/roboshop-demo-16oct2013/)
- · The project PhaROS is going to be presented in FOSDEM 2014, (https://fosdem.org/2014/) as PhaROS Towards Live Environments in Robotics in the Smalltalk devroom.
- · From this position i also contribute with the project TaskIT (http://smalltalkhub.com/#!/ sbragag-nolo/TaskIT), which is a project for managing parallelism and concurrence in a Pharo smalltalk environment.

- · The used technologies for the robot side are: Pharo, ROS, Python and C++. For the graphical interface: Pharo, Seaside, Bootstrap, Javascript, html+css3, for iPad
- · Contact reference: Noury Bouragadi +33 6 27 07 48 42; noury.bouragadi@mines-douai.fr

Fanwards (http://www.fanwards.com/) Software engineer, gamification

November 2011 - August 2012 Ciudad de Buenos Aires, Argentine

- · Design and implementation of the web application Fanwards, front and backend. Working with the CTO.
- · Using for front end heavy weight clients based on javascript technologies such as Backbone.js, jquery, underscore.js, mustache and for the view HTML5 and CSS3.
- · Using for the backend a Google App Engine (GAE) Server with Scala & Java, Objectify for the mapping between objects and google's BigTable, Spring MVC and RestFul frameworks for routing and dispatching of exposed and scheduled behaviours. Finally twitter4j and facebookRest for interacting with social networks.
- · From this position i have developed: a full intelligent single-page client based on javascript, a small functional library for javascript implementing some of the common haskell features (partial application, curryfication and function compositions), really useful abstractions for AJAX request processing, also developed a social network crawler for analysing users comments for branding (with heuristics to analyse the meaning of each comment).
- · From this position i also participate not just in software design, planning and architecture but also in the gamification process of the application.
- · During all the development of the application we used Scala BDD and TDD techniques with great success.
- · Crossing data for brand reports with Map reduce.
- · You can watch the most important part of the implementation in the following example https://www.facebook.com/pages/Melee-Island-Inc/252598398140724?id=252598398140724&sk=app_232320516837452
- · Contact reference: Claudio Fernandez claudiof@gmail.com

Aufiero Informatica

March 2011 - November 2011

 $Software\ architect,\ designer\ \mathcal{C}\ developer$

Ciudad de Buenos Aires, Argentine

- · Project manager in charge of a 4 persons team.
- · Reseller/Partner management system based on Groovy on Grails technology and communicating to software legacy done in PHP.
- \cdot Mail campaign web system for internal usage (For AVG campaigns). Done in Groovy and Grails / Jasper reports
- · Email send system multi-engine, auto-deployable with load balance and mail tracking. Done in Groovy and Java, using Apache Email.
- · Single sign on system for our different platforms Done in Groove and grails.
- · Contact Reference: Osvaldo Aufiero osvaldo@aufiero.com.ar

Buscouniversidad .com

January 2011 - March - 2011

Developer & system designer

Ciudad de Buenos Aires, Argentine

- · Designing of Data base structure, SQL queries.
- · Design and development of the directory system (such as OLX, Craiglists, etc, but specific for universities)
- · Based on PHP with Zend framework, sphinx and Javascript with JQuery. And in the development of processing tools
- · Design and development of a processing based on patterns for recognising rejects and angry people (python);

- · Design and development of an easy code generator for Zend framework
- · Contact Reference: Pablo Morales pablofmorales@gmail.com

Aufiero Informatica

March 2007 - December 2010

Software designer & developer - Project manager

Ciudad de Buenos Aires, Argentine

- · Designer and developer of an Accountant management system Java, Flex 3.1 JBoss
- · Maintainer, developer and DBA of an Editorial integral management system (stock, accounting, finances, sells, shopping, etc) visual basic 6.0 / sql server / Crystal reports.
- · Designer and developer of ETL pattern for making up a small datawarehouse for sales analysis.
- \cdot Designer and developer Classified ads management system Net Framework 3.0 C# Nhibernate Windows form
- · Software designer, developer and functional analysis Billing online system PHP, CakePHP, Javascript jquery.
- · Software designer, developer Electronic Invoice system (Based on the local taxes system) Java, Groovy and Grails / jasper reports.
- · Contact Reference: Osvaldo Aufiero osvaldo@aufiero.com.ar

MSA 2006

DBA Oracle 9i & Postgres SQL

Ciudad de Buenos Aires, Argentine

- · DBA of three productive databases related with ticket system (kind of ticketek but with less stress)
- · My tasks were Data base monitoring, Backup, SQL Security, Database and query tuning for the productive systems (Oracle 9i) and making up configurations for eventual projects (Usually Postgres SQL)
- · Parallely i had some small responsibilities in eventual projects

Research for decision 2003 - 2005

Developer

Ciudad de Buenos Aires, Argentine

- · Design and development of polls in eole/saxophone (language and poll system).
- · Servers, machines and network maintenance.

Freelance 2002 - 2009

Developer, Designer, Architect, DBA & Client management

Ciudad de Buenos Aires, Argentine

- · This are the projects i have developed as independent, several of them still in usage, and I maintained almost them for one to two years.
- · November 2002 to July 2003 Nutritional preparations management system for a Parenteral Laboratory (UNANUT) Visual Basic & Microsoft Access (Supported until 2005). Contact Reference: Lorena Fazio faziolorena@yahoo.com.ar
- · June 2003 to August 2003 Stock management system for a box factory Visual Basic & Microsoft Access (Supported until 2004). Contact Reference: Gerardo Grimaldi grimaldi.gerardo@gmail.com
- · July 2009 to March 2010 Certification and courses management system SFAP PHP (http://www.facpce.org.ar/) (Supported until 2011). Contact Reference: Christian Milokanovich milo76@gmail.com

EXPERIENCE IN OPEN SOURCE - COMMUNITY PROJECTS

On my own

Mars - May 2014

 $Making\ work\ Scala\ +\ Play\ +\ MongoDB$

Malaga

- · Putting together some existant technology for a project on my own
- · Fully developed with Scala and Play. It has some java dependancies (Jackson for JSon marshalling)
- · https://github.com/sbragagnolo/mongodb

On my own

June - August 2014

Social secure plugin for Play running on top of MongoDB

Malaga

- · Social secure backend implementation for running on mongoDB
- · Fully developed with Scala and Play.
- · https://github.com/sbragagnolo/SocialSecurePlayMongo

On my own

Android

Mars - August 2014

Malaga

· Android application for knowing where to go to play football.

· https://github.com/sbragagnolo/Where

Google summer of code

May 2012 - September 2012

Type inference on dynamic languages

Ciudad de Buenos Aires, Argentine

- · Design, development, planning and research in the topic of Concrete type inference.
- · Mentored by Nicolas Passerini (npasserini@gmail.com).
- · The proposal is registered http://gsoc2012.esug.org/projects/type-inference
- · From this project i have implemented a concrete type inference system for Pharo Smalltalk 1.4, a graph of methods to be executed as response of the analysis of a given expression, and an object oriented logger.
- \cdot I also took the work of blogging all the work progress and design decisions in a blog. This project was presented in the conference ESUG 2012 Gent (http://www.esug.org/wiki/pier/Conferences/2012)
- · Site http://concretetypeinference.blogspot.fr/.
- $\cdot \ \ Concrete type inferencer and the call graph analyser (Kwisatz Haderach) http://ss3.gemstone.com/ss/Concrete Type inferencer and the call graph analyser (Kwisatz Haderach) http://ss3.gemstone.com/ss/Concrete Type inferencer and the call graph analyser (Kwisatz Haderach) http://ss3.gemstone.com/ss/Concrete Type inferencer and the call graph analyser (Kwisatz Haderach) http://ss3.gemstone.com/ss/Concrete Type inferencer and the call graph analyser (Kwisatz Haderach) http://ss3.gemstone.com/ss/Concrete Type inferencer and the call graph analyser (Kwisatz Haderach) http://ss3.gemstone.com/ss/Concrete Type inferencer and the call graph analyser (Kwisatz Haderach) http://ss3.gemstone.com/ss/Concrete Type inferencer and the call graph analyser (Kwisatz Haderach) http://ss3.gemstone.com/ss/Concrete Type inferencer and the call graph analyser (Kwisatz Haderach) http://ss3.gemstone.com/ss/Concrete Type inferencer and the call graph analyser (Kwisatz Haderach) http://ss3.gemstone.com/ss/Concrete Type inferencer analyse (Kwisatz Haderach) http://ss3.gemstone.com/ss/Concrete Type inferencer and the call graph analyse (Kwisatz Haderach) http://ss3.gemstone.com/ss/Concrete Type inferencer analyse (Kwi$
- · Paule le poulpe; Object oriented Logger http://smalltalkhub.com/mc/sbragagnolo/PLP/main

ESUG financed Project

May 2011 - September 2011

Developer in DBXTalk

Ciudad de Buenos Aires, Argentine

- · Design and implementation of the automatic binding and scaffolding for DBXTalk (ex SqueakDBX) and Glorp.
- · DBXTalk (http://dbxtalk.smallworks.com.ar/) is a bridge that gives support for the database systems to mainstream Squeak and Pharo smalltalk.
- · This project with the porting of Glorp to Pharo (by Guillermo Polito) were presented in ESUG 2011 Edimburgh (http://www.esug.org/wiki/pier/Conferences/2011)
- · Contact Reference: Guillermo Polito guillermopolito@gmail.com

FACPCE financed Project - Used for SFAP

2009

Developer in Cornucopia framework

Ciudad de Buenos Aires, Argentine

- · PHP Cornucopia. Is an already obsolete full stack framework. It provides:
 - Collections
 - Simple ORM configurable by metadata
 - Simple dependency injector
 - HTML reification for composing and HTML generation
 - Javascript generation by metadata (Requirements, etc)
 - Request reification as object
 - Session reification as object
- · Check it out from: https://github.com/sbragagnolo/cornucopia

· Contact Reference: Christian Milokanovich milo76@gmail.com

On my own for an university topic

2007

Developer in C Objects framework

Ciudad de Buenos Aires, Argentine

- · C Objects. Is a framework to provide several object oriented programming features to C. It provides:
 - Collections (Dictionary, List)
 - Strings
 - Server, with node objects for managing requests
 - Automatons for simple language interpretation
 - Threads reification
 - Mutex and Conditional reifications
 - Error management (managed by signals, giving the change to register error handlers and to raise errors)
 - Memory management.
- · Checkit out from: https://github.com/sbragagnolo/c-objetos
- · Contact Reference: nicolassouto@gmail.com

TEACHING EXPERIENCE

Universidad Tecnologica Nacional (UTN)

March 2007 - July 2012 Ciudad de Buenos Aires,

 $Adhonorem\ teaching\ assistant\ at\ Advanced\ programming\ techniques$ Argentine

- · Teaching the next concepts, techniques and tools
 - Object oriented programming
 - Patterns
 - Methodologies TDD/BDD, DDD, Agile
 - Re-factors
 - Meta-programming
 - Basic architectures
 - Technologies
 - Maven
 - $-\,$ IDEs Eclipse, Idea, Netbeans
 - JUnit, ScalaTest
 - SVN & GIT
 - Dynamic languages
 - Scala
 - Python
 - Smalltalk
 - Self

- Modern applied concepts
 - Traits and Mixins
 - Lambdas / anonymous functions
- · Contact Reference: npasserini@gmail.com

Universidad Tecnologica Nacional (UTN)

Adhonorem teaching assistant at Programming paradigms

March 2007 - December 2011 Ciudad de Buenos Aires, Argentine

- · Teaching the next concepts, techniques and tools
 - Object oriented paradigm
 - Pharo Smalltalk
 - Functional oriented paradigm
 - GHC
 - WinHugs
 - Logical oriented paradigm
 - Swi prolog
- · Contact Reference: carlombardi@gmail.com

Fundacion Proydesa

March 2006 - November 2007 Ciudad de Buenos Aires, Argentine

Oracle DBA Instructor

- · In this foundation i worked as instructor of three of the four basic modules of Oracle for Database administration
- · SQL (Module 1)
- · Engine Architecture (Module 2)
- · Tuning (Module 4)
- · I also participate as instructor in the instruction of new instructors for modules 1 and 2.

EDUCATION

Universidad Tecnologica Nacional (UTN) - Ciudad de Buenos Aires - Argentine January 2004 - Aborted on 2011 because family problems, having papers to proof 7 semesters of career of 10 Software Engineer

Ing. Otto Krause - Ciudad de Buenos Aires - Argentina Technic in computation

December 2001