

SANTIAGO BRAGAGNOLO

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SmalltalkHub	smalltalkhub.com/#!/sbragagnolo

EDUCATION

Universidad Tecnologica Nacional (UTN) - Ciudad de Buenos Aires - Argentine *Janvier 2004 - 2011 (Inconcluse)*

Software Engineer - J'ai course 3 first years and part of the forth (Of 5 years of career)

Ing. Otto Krause - Ciudad de Buenos Aires - Argentina

December 2001

Technic in computation

EXPERIENCE

Ecole des mines de Douai

Software Engineer, Robotics

September 2012 - Present

Douai, Nord-Pas-de-Calais

- I am in charge of the 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.
- 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/#!/sbragagnolo/TaskIT>), which is a project for managing parallelism and concurrence in a Pharo smalltalk environment, and it will be soon integrated as an enterprise solution for the language.
- The used technologies for the robot side are: ROS, Pharo, C++, Python. For the graphical interface: Pharo, Seaside, Javascript+backbone.js + Underscore.js, html+css3
- For the framework project we started to write a cook-book and the related documentation, the first one in latex format, and the second one in markdown format.

Fanwards (<http://www.fanwards.com/>)

Software engineer, gamification

November 2011 - August 2012

Ciudad de Buenos Aires, Argentine

- I am in charge of 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.
- 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

Google summer of code

May 2012 - September 2012

Type inference on dynamic languages

Ciudad de Buenos Aires, Argentine

- I am in charge of design, planning, research, engineering, responding to my mentor 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, which is now being used in several Pharo projects. I also took the work of blogging all the work progress 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/>.
- Concrete type inferencer and the call graph analyser (Kwisatz Haderach) - <http://ss3.gemstone.com/ss/ConcreteTypeInference/>
- Object Logger - <http://smalltalkhub.com/mc/sbragagnolo/PLP/main>

ESUG financed Project

May 2011 - September 2011

Developer in DBXTalk

Ciudad de Buenos Aires, Argentine

- In this project i am in charge of design and implementation of the scaffolding for DBXTalk (DBXTools) and the bridging with Glorp framework.
- 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 - Edinburgh (<http://www.esug.org/wiki/pier/Conferences/2011>)

Aufiero Informatica

March 2011 - November 2011

Software architect, designer & developer

Ciudad de Buenos Aires, Argentine

- This company is a small software factory and AVG antivirus reseller for latino america. I worked two times in this enterprise, look down in previous experiences to look my progress
- Reseller /Partner management system based on Groovy on Grails technology and communicating to software legacy done in PHP.
- 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 Groovy and rails.

Buscouniversidad .com

Developer & system designer

January 2011 - March - 2011

Ciudad de Buenos Aires, Argentine

- In this work i'am in charge of designing of Data base structure, SQL queries. In the design 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
- From this position i had developed mail processing based on patterns for recognising rejects and angry people (python); an easy code generator for Zend framework; the administration application of the site.

Universidad Tecnologica Nacional (UTN)

Adhonorem teaching assistant at Advanced programming techniques
Argentina

March 2007 - July 2012

Ciudad de Buenos Aires,

- Teaching the next concepts, techniques and tools
 - Object oriented programming
 - Patterns
 - Methodologies TDD/BDD, DDD, Agile, Scrum
 - Re-factors
 - Meta-programming
 - Basic architectures
 - Technologies
 - Maven
 - IDEs (Eclipse)
 - JUnit
 - SVN & GIT
 - Dynamic languages
 - Python
 - Smalltalk
 - Self
 - Modern applied concepts
 - Traits and Mixins
 - Lambdas / anonymous functions

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

Aufiero Informatica

Software designer & developer

March 2007 - December 2010

Ciudad de Buenos Aires, Argentine

- In this company i had being in several projects, always as software designer and developer, and in the last year also as architect.
- The followings are the project i did and my role
- Accountant management system - Designer and developer - Java, Flex 3.1 JBoss
- Editorial integral management system (stock, accounting, finances, sells, shopping, etc) - Maintainer, developer and DBA - visual basic 6.0 / sql server / Crystal reports
- Classified ads management system - Maintainer, developer - Net Framework 3.0 C# Nhibernate Windows form
- Billing online system - Software designer, developer - PHP, CakePHP, Javascript jquery
- Electronic Invoice system (Based on the local taxes system) - Software designer, developer - Java, Groovy and Grails / jasper reports.

MSA

DBA Oracle 9i & Postgres SQL

May 2006 - October 2006

Ciudad de Buenos Aires, Argentine

- In this company i had in charge the administration 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

Fundacion Proydesa

Oracle DBA Instructor

March 2006 - November 2007

Ciudad de Buenos Aires, Argentine

- 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.

Research for decision

Developer

January 2005 - November 2005

Ciudad de Buenos Aires, Argentine

- In this company my main responsibility was the development of polls in eole/saxophone (language and poll system)
- Also i was in charge of maintaining servers, machines and network.

Independent work

Developer, Designer, Architect, DBA & Client management

2002 - 2009

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)
- June 2003 to August 2003 - Stock management system for a box factory - Visual Basic & Microsoft Access (Supported until 2004)
- July 2009 to March 2010 - Certification and courses management system SFAP - PHP (<http://www.facpce.org.ar/>) (Supported until 2011)

TECHNICAL STRENGTHS

Operative system	Ubuntu, Fedora, Windows XP, Windows 7, Mac OS Mountain Lion
Computer Languages	Java, Scala, Javascript, C#, Pharo, C, C++, Python
Application Middleware	Tomcat, JBoss
Robotics Middleware	ROS
ORM Frameworks	Hibernate, nHibernate, Objectify
DI Frameworks	Spring
MVC Frameworks	SpringMVC, Grails
Client Frameworks	Backbone.js, Underscore.js,
Robotic Frameworks	PhaROS, ROSCpp, ROSPy
Databases	MySQL, PostgreSQL, Oracle, SQLServer
Virtualization	Virtualbox
Tools	SVN, GIT, Eclipse
Writing	LaTeX, Markdown