

*entrepreneur. enthusiastic. passionate. software engineering.
software architecture. design patterns. ruby. python. java.
open source. linux. apple. web 2.0. soa.*

Professional Experience

- March 2007–
current **Open Source Researcher, Software Engineer, SAP Labs, LLC, USA.**
Working at the SAP Research Labs in Palo Alto, USA, where's conducting works on the Open Source field. One of them being a recommendation system. Mainly using Java and Ruby.
- 2006 **Software Developer, FBAUP, Portugal.**
Worked for Oporto's Faculty of New Arts where he helped developing, along with a team of three other members, a wiki system (SnipSnap) with geo mapping and geo referentiation (Google Maps).
- 2006 **Technical Manager, PT Inovacao, SA., Portugal.**
Managed and developed, along with a team of 6 other people, a Custom Relationship Management software for PT Comunicacoes, the number one communications provider in Portugal. It was developed with the Java web framework Apache Tapestry and using an Oracle 10g database backend.
- 2006–
current **Software Developer, Software Architect, Software Engineer, Image, Portugal.**
Has been invited to work as a software architect and developer for the Image project. The project aims at building a simulation program where students can cope and compete with other students. Image tries to simulate a real world with different countries, different cultures and different companies. There's a strong emphasis on the production, logistics, financial management and marketing. The game pretends to be like the Global Management Challenge (endorsed by several consulting companies) but giving prominent detail to logistics and production. The project was initially developed in ASP and Java and will now be ported to Ruby on Rails.
- 2006–
current **Software Developer, Software Architect, Software Engineer, Blogaqui, World.**
A pet project done during his spare time, it consists of a website that allows one to find blogs written in Portuguese. It has social networking capabilities and a recommendation system is to be implemented. After six months of being launched, it has more than 1000 unique visitors per day (www.blogaqui.com). It was developed over the Ruby on Rails framework.
- 2005–2006 **Open Source Researcher, Software Developer, Edukalibre, World.**
Enrolled in the Edukalibre project as a team developer and researcher with a scholarship. Edukalibre is a project funded by the European Commission under the Socrates/Minerva program (aimed at the promotion of information and communications technology in education). Its main goal is to explore new ways of producing educational materials, based in the practices and procedures observed in the libre (free, open source) software development community. Some of the key aspects being explored are the stress on collaborative development, the interaction with users, and the use of version control systems for documentation, in the context of the educational communities. He was responsible for developing a wiki as a module for Moodle with Subversion support, AJAX and a lot more.
- 2005–2006 **Software Developer, SOPSEC, Portugal.**
Developed a B2B/B2C solution for Sopsec, an engineering company. It was developed in PHP.
- 2005 **Software Developer, Technical Manager, McKinsey Int, Portugal.**
Worked as a freelancer for McKinsey International managing and assisting the development of an online schedule for the intranet of the biggest private portuguese bank, Millennium BCP. Developed in ASP.NET

- 2004-2005 **Researcher, Evangelist**, *FreeFEUP*, Portugal.
Invited to participate on the FreeFEUP project as a researcher with a scholarship. The project aimed at the promotion and spreading of the Free/Open Source Software amongst the students of the Faculty of Engineering of the University of Porto (FEUP).
- 2004 **Freelancer, Mistery Client**, *Qualidade XXI*, Portugal.
Worked as a mistery client for a quality management company, Qualidade XXI.
- 2003 **Software Developer**, *FacelN*, Portugal.
Developed a site for FacelN, a fashion company dedicated to promotional management and social events. Developed in ASP.
- 2002-2003 **Software Developer**, *Quinta dos Ciprestes*, Portugal.
Developed an internal management system to assist on tourism renting. Initiaially developed in ASP and then upgraded to PHP.

Education

- 2002-2008 **MSc Software Engineer**, *Engineering School of Oporto's University*.
Pursuing a Masters in Software Enginnering (major Computer Science, minor Software Engineering), currently on the 5th year (out of five) with an average grade of 16 (out of 20).
- 1999-2002 **High School**, *CNSR*.
Finished high school in 2002 with a final grade of 18 (out of 20) and accessing university through national exams achieving an average of 18 (out of 20).

Publications

- Villate, Jaime; Faria, Nuno; Dutra, Guilherme; Lopes, Mario - Edukalibre Project: Versatility in e-learning - Open Source for Education in Europe 2005

Computer Skills

OS	Linux, Unix, Mac OS X, Windows	administration	Apache, Postfix, Mailman
programming	Java, C, C#, Prolog, ASP, VDM++, CaffeObj, Scheme	scripting	PHP, Bash, Ruby, Python, Javascript
frameworks	Ruby on Rails, Tapestry, .NET, J2EE, Eclipse RCP, Smarty	typography	L ^A T _E X
web design	XHTML, CSS, AJAX	database	Access, MySQL, PostgreSQL, SQLServer, Oracle
GUI toolkits	Tcl/Tk, GTK+, Windows.Forms	networking	TCP/IP (HTTP, HTTPS, HTTP+WebDAV, IMAP, POP, SMTP, IRC)
distributed computing	TCP broadcast, UDP multicast, Java RMI, RPC, Jini, CORBA, COM/DCOM, .NET Remoting	VCS	SVN, CVS, darcs
ide	Eclipse, Netbeans, Anjuta, Visual Studio 6/2003/2005	mobile development	ASP.NET Mobile, WML, XHTML
modeling	UML Eriksson&Penker, BPEL, BPMN, UML		

Interests

software engineering	Software Architecture, Design Patterns, Agile Development
web development	Rails, Django, AJAX, XHTML/CSS
open source	Free/Open Source Software, Linux
services	Web/Enterprise Services, SOAP, REST, JSON, SOA
distributed systems	RPC, XML-RPC, Java RMI, Jini, Grid computing
user experience	Usability, User Experience, Aesthetics, Apple
economics	Macro Economics, Management, Social skills, Entrepreneurship
music	DJ as a part time

School Projects

Algorithms and Data Structures, Artificial Intelligence

- Binary and search trees: Patricia and Red-Black (Java)
- Finding the quickest and shortest route and a GUI for constructing graphs (Java)
- Linear optimization of the positions of bidimensional pieces (Prolog)
- Recognition of human signatures using neural networks (C) with a graphical interface (GTK+)
- Interactive simulation of memory allocation algorithms (first fit, best fit, worst fit) with statistical data (C++) and graphical interface (OpenGL, GLUI)
- Bidding system based on contractual networks using AI agents (Java, JADE)

3D

- Modeling and animation of a 3D scene (OpenGL, GLUT, GLUI)
- Implementation of the Backgammon game (Prolog) with a 3D interface (OpenGL) via UDP sockets.

Low level programming

- Implementation of a compiler for a target language (Bison, Flex, GCC)
- Programed a plot drawing software using the frame buffer (C, ASM)
- Alarm manager using the PC speaker and internal counters (ASM)

Internet/Networks

- Distributed bidding system (C#, .NET 2.0, Windows.Forms, .NET Remoting, Remoted Events)
- Mobile website for PDAs, Smartphones and Pocket PCs (ASP.NET Mobile, MySQL)
- E-commerce website (SQLServer, ASP.NET 1.1)
- IRC client (C, GTK)
- Data transmission over serial ports (C)
- Distributed applications (Java RMI, Remoting .NET, CORBA, DCOM)
- Software for managing condominiums (PostgreSQL, PHP, PHP Pear)

Management

- Played the role of a coach (Technical Manager) in the simulation of a real company for developing a web based CRM to PT Inovacao, a leading tech provider (Java, Tapestry, Oracle 10g)

Miscellaneous

- Eclipse RCP plugin for managing schedules (Java, Eclipse RCP, Hibernate, Oracle)

Languages

Portuguese **Native**

English **Very good**

Had English classes for more than 8 years and writes articles/thesis in English. Excellent reading and very fluent speaking

Spanish **Basic**

Due to its resemblance to Portuguese he's able to establish a conversation.

French **Elementary**

Took classes during 3 years a long time ago.