# Nuno Valente

## Personal Data

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## Summary

I'm a Software Engineer always interested in the success of every project that I'm involved. Educated in the midst of the Java ecosystem while in college, I've gained experience with the language with the day-to-day work but I've also fallen in love with the (J)Ruby world while doing my internship. Studying at Universidade Nova has taught me proficiency in assimilating new languages, paradigms and styles, and I am confident in using them to solve specific problems and build complex systems. Being a Blue Ocean enthusiast I want to be a part of awesome ideas that can cast a brand new look over the existing markets. My expectations are to find a company motivated with breaking away from the status quo, where I can make a difference on their growth and where my ideas can be put in place and action. Right now, my main focus lies in software stack's that encompass (C)ESP (Complex Event Stream Processing) and BigData technologies, but I'm always eager to learn, create and excel in any field. I'm particularly interested in Machine Learning, Financial Markets, Biotech, IoT, but i'm happy with any domain that sparks my inspiration.

# Work Experience

**2008 - present**  **Software and CEP Engineer** at **Portugal Telecom**, Lisbon

- As a member of a R&D team, I was responsible to maintain a proactive search of open source technologies that the company could benefit from. It was expected the development of PoC projects that could evaluate the effectiveness of one or more technologies while making use of real company data.

- Undertook the Scrum Master position while working on a in-house monitoring solution.

- Architected and developed several components for the forth and fifth generation of a monitoring platform for IT infrastructures and Business Processes. The major components where I was involved where: a DSL Parser to describe the most common company IT Infrastructures; a service to run a well know CEP engine and to process incoming monitoring events; the middleware to support message flow between the front-end API services and all the monitoring platform components; several set's of rules and heuristics for the CEP engine and some integration components such as ETL processes and message queue integration processes.

- Implemented several monitoring projects for company critical business activities, applications and systems. Those projects required investigative work with the application development teams and owners, proactive search for useful information in the involved company systems and applications, make and put into action a monitoring plan that included a useful set of metrics, KPI and alarms. These projects where materialized making use of the in-house developed monitoring platform and extending it, if needed.

- Architected and developed several monitoring agents for Windows based systems. Those agents where installed in the servers that supported the most critical company business applications. They had the capability(ability?) of extracting virtually any measurment from the system. They where also capable to monitor and extract log files or Event Log entries in real time.

- Planned and executed load and stress tests on critical product public websites.

**2007 - 2008**  **Software Engineer Intern** at **Portugal Telecom**, Lisbon

- Architected and developed core components and monitoring agents for the fourth generation of an in-house monitoring solution, using the acquired knowledge while working on my college final project.

- Finished my college final project entitled "Middleware Security, Performance Monitoring and Analysis" with final grade of 18 on a scale between 10 and 20

# Known and used technologies

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| Programming Languages | **Java** - Making use of the common Java ecosystem development tools and frameworks such as JUnit, Spring and Maven2 I wrote several components, from monitoring agents integrated with TIBCO Hawk to Esper engine loaders.<br>**JRuby\Ruby** - Wrote ETLs, private gems with API's for internal company services, DSLs, Esper engine loaders, I/O adapters, etc.<br>**C#** - Architected Developed a Windows service responsible for loading micro-agents that extract system measurements from the PT Portugal Server and Desktop park, ad-hoc logs and Eventlog samples. Also made an API available to third parties to develop their own micro-agents.<br>**Objective C** - Used it while developing in iOS |
| Complex Event and Stream Processing Engines | **Esper** - Implemented several rule set's to correlate events from mission-critical business processes that require near real time attention such as sales, home equipment malfunction report incidents, IVR calls, etc.<br>**SEC** - Used as event correlator for minor projects.<br>**Drools** - Evaluated while comparing with Esper as the go to CESP engine for my team projects. |
| Databases | **Neo4J** - Architected and developed various PoCs to trace business events and identify system or process bottlenecks while delivering useful metrics and some system communication insights .<br>**MySQL** - Used on most projects that I took part of.<br>**MongoDB** - Evaluated and developed a PoC to replace MySQL on some projects.<br>**Oracle** - Used in a couple of projects in coledge. |
| Web Frameworks | **Ruby on Rails** - Used for prototyping some management and metric dasboard web interfaces.<br>**Sinatra and Node.js** - Implemented REST API development. |
| Middleware\MQ | **ActiveMQ and Camel** - Used as the main message queuing system with Camel routes, processors, etc.<br>**RabbitMQ** - Evaluating as a replacement for ActiveMQ.<br>**Tibco Rendezvous and EMS** - Used to listen event sources for (C)ESP rule sets and to integrate with TIBCO Hawk. |
| Mobile Framework | **iOS 4** - Developed an unreleased App for a Portuguese startup that operated in the discount card business called XPTO Card. |
| SCM\Project Management | **Git** - Used for all projects in tandem with Gitorious and Redmine.<br>**Maven2** - Used for all Java projects. |
| Load Testing | **QTest** - Because OpenSTA didn't had any maintainers the company preferred QTest since it had support from Quotium.<br>**OpenSTA** - Used for small load tests. |
| OS's | Daily use of Linux and OSX for both personal and enterprise use (distributions: Red Hat, Debian). |

## Education

| 2001 - 2007 | **Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa** |
| | Major of Science (5 year major pré-Bolonha) in Software Engineering. GPA of 15 on a scale between 10 and 20. |

## Training

| 2011 | *Scrum Alliance -* Certificate Scrum Master |
| 2008 | *Quotium Technologies -* QTest |

## Interests and Activities

Physical exercise is one of my favorite hobbies and I always try to save some time on my day to do some running, lift weighting, indoor fitness classes, martial arts or play football. Besides my main interests in ESP, CEP, Machine Learning, BigData, etc., I also try to keep up with the current hot topics such as Social Web, Online piracy legislation, patent wars and so many more. On my free time I love to read or listen to audiobooks and my tastes tend to fall on the Science Fiction or Technology/Engineering domains. While working at PT Portugal I was also actively involved in two startups. One in the discount card business and, currently, one in the spirits business.