

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 on the Java ecosystem in college and further gained experience with it with day to day work but I've fallen in love with the (J)Ruby world after being introduced to Rails. 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. Right now, my main focus lies in software stack's that encompass CEP 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, and all fields or markets that spark my inspiration.

Work Experience

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

- Developed and engineered several components for the fifth generation of a monitoring platform for IT infrastructures and Business Processes. The main components where i was involved where a DSL Parser to describe IT Infrastructures and several set's of rules for a ESP/CEP engine. I have also continued to develop components for the previous version of the aforementioned monitoring platform.
- Developed and engineered several components for the fourth generation of a monitoring platform for IT infrastructures and Business Processes. The bulk of my work was to write, re-factor and maintain a set of Windows monitoring agents, develop an ETL infrastructure to handle agent events and to develop set's of rules for a ESP/CEP engine, to correlate agent and businesses events from several sources. I also lead several smaller internal projects.
- Planned and executed load and stress tests on critical product public web-sites.

2007 - 2008 Intern developer at **Portugal Telecom**, Lisboa

- 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 18/20. The main goals of my final project where the following:
 - Identify QoS, QoP and QoM indexes for the most critical Middleware platforms in Portugal Telecom. At that time they were Microsoft Biztalk and Tibco Rendezvous;
 - Develop middleware monitoring agents to extract relevant information that can be correlated to produce QoS, QoP and QoM indexes;
 - Develop a set of rules in SEC (Simple Event Correlator) to produce the desired indexes;

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 0 and 20.

Languages and Frameworks

Ruby / JRuby	Developed several components for an event processing stack, such as event pre-processors, input/output adapters and Esper (CEP) engine loaders. Wrote private gems with API's for internal company services.
Java	Wrote a Tibco monitoring agent to extract KPI's from Tibco Hawk. Wrote Camel routes, processors, translators. Implemented Ad-hoc Event pre processors, CEP engine loaders, etc.
.Net C Sharp	Developed a Windows service responsible for loading micro-agents that extract QoS measurements, ad-hoc logs and Eventlog samples. Also made an API available to third parties to develop their own micro-agents.
Objective C / iOS	Developed a yet unreleased App for a restaurant discount card business.

Platforms and Technologies

CEP (Esper)	Engineered and wrote an Esper engine loader, adapters, peripheral components, and a distributed engine loader using ActiveMQ Designed and 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.
OS's	Daily use of Linux and OSX for both personal and enterprise use (distributions: Red Hat, Debian)
Databases	MySQL, Oracle (in college)
Web	Ruby on Rails for prototyping some management web interfaces. Node.js and Coffescript for fun
Revision Control	Git
Middleware Message Queueing	ActiveMQ and Camel Tibco Rendezvous and Hawk while working in my final college project and internship.
Load Testing	QTest and OpenSTA
Mobile	iOS to design and implement a small business App.

Training

2011	SCRUM Master
2008	QTest Load Testing

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, BioTech, Stock Market trends and so many more. On my commute time i love to read or listen to audiobooks and my tastes tend to fall on the Science Fiction or Technology/Engineering domains.