

André Parreira Ricardo

Full-stack Software Developer

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PROFILE

I am a polyglot programmer with no trouble in adapting and working with a myriad of different technologies. I love Open Source and the Web.

I can work in any part of the stack of a modern web framework, from the database or services to the client javascript, and I like that.

EXPERIENCE

Contractor Software Developer

HSBC | September 2011 - Present

Work within Product Control on their hedge effectiveness testing reports

- Adding new functionality and maintaining existing internal application for traders hedge accounting. Application in C# and WinForms connected to a SQL Server
- Traders' hedge regression testing reports created in Excel were transferred to the application to automate tasks and remove human error
- Automating browser and Excel tasks such as the migration of users using the Selenium Web C# Driver for external site that works with Internet Explorer only

Full-stack Software Developer

The Share Republic.com Ltd | September 2011 - Present

Online share dealing platform startup

- Responsible for creating all the needed components such as the backend services and seamless integration with existing PHP/Javascript front-end and MySQL database
- Converted database schema to MySQL Workbench
- Building backend Java services to connect to several 3rd parties providers for personal ID and Anti-money laundering checks, payment gateway, stock settlement and historical stock database. Formats involved in dealing with 3rd parties connections:
 - ActiveMQ messaging queue
 - SOAP with CXF client
 - XML-RPC
 - FIX Protocol
 - SQL Server
- Automated the deployment and building process with Jenkins for faster iterations and often commits. Code is now automatically retrieved from a Git repository, built with Maven and the solution deployed to the servers
- Server configuration in Linux CentOS in Linode, Red Hat in Rackspace and Amazon AML instances in Amazon EC2 with MySQL databases in Amazon RDS. Server deployment automation with Puppet
- Used Akka actor model to simulate a publish/subscribe service of limit orders to mock the expected behavior of a 3rd party

Consultant

Novabase | November 2010 - August 2011

Consultant CRM - Portals

- Working with Liferay, a Java CMS, developing portlets for the website and back-office administration area of DNS.pt (the foundation managing all top-level .pt domains)
- Web Services created with Axis2, user interface in JSP with interactions in jQuery and the database in PL/SQL (Oracle 10g)
- Integration of the clients' website with the payment system used for handling Mastercard and Visa cards
- Migrated 400.000 users to the new platform

Independent Web Developer

ISCTE-IUL MIT Portugal Venture Competition | August 2010 - September 2010

Created the website

- Side project during my master where I created the website mitportugal-iei.org for the ISCTE-IUL MIT Portugal Venture Competition, also provided support and training for the people maintaining the site
- Site created using Joomla, PHP, HTML, CSS and MySQL. This was done in a very limited time frame while accommodating all the requirements by the client

Developer

Caixa Mágica Software | July 2009 - June 2010

Creating the build system for RPM's package using BuildBot for the biggest portuguese Linux distribution

- Developing and maintaining a web platform for user submitted content and integration with an automated packages build system
- Extended BuildBot (in Python)
- Created RPM packages and used the RPM manager
- Bash scripting
- PHP and HTML for the front-end, PostgreSQL for the database
- Built XEN Virtual Machines for the whole package and building process
- Research in the Alfresco CMS

Master in Management and Computer Science

ISCTE | 2005 - 2010

- For my master thesis I customized Nutch, an open source search engine with scalability in mind, built a small prototype to retrieve and index music from the web. Also used Hadoop, Lucene, Java, Maven and Python
- College projects involved mostly Java, C#, Web Services, .NET 3.5, MSSQL, Linq to SQL, PHP, MySQL, Bash and some C

KEY SKILLS

- Java, C#, PHP, Python, Unix, MySQL, Git, APIs, Web Services, Continuous Integration and Deployment

EDUCATION

- MSc in Management and Computer Science, thesis "[Building a Scalable Index and Web Search Engine for Music on the Internet using Open Source software](#)"

ISCTE - Instituto Superior das Ciências do Trabalho e da Empresa, Lisbon

<http://www.iscte-iul.pt/>

- Fundamental Consulting Skills
Novabase, Lisbon

- Linux training (summer internship)
Caixa Mágica, Lisbon

REFERENCES

References are available on request.