

# 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 variety 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

- Profit and Loss web dashboard accross businesses (React, Javascript, ASP.Net Core, C#, LINQ, SQL Server)
- Adding new functionality and maintaining existing internal application for traders hedge accounting (Legacy Code)
- Traders' hedge regression testing reports created in Excel were transferred to the application to automate tasks and remove human error (C#, WinForms, LINQ, SQL Server)
- Source code migration and team training (Git, SVN)
- Automating browser and Excel tasks such as the migration of users (C#, Selenium Web Driver)
- Functional GUI testing using Sikuli (Python)
- Interviewing, onboarding and training new staff for Ring Fenced Bank project
- Fix memory leaks (C++)
- Setup and improve code coverage (TDD, OpenCover)

### Full-stack Software Developer

The Share Republic.com Ltd | September 2011 - October 2017

Online share dealing platform startup

- Responsible for creating all the needed components such as the backend services and seamless integration with existing front-end and MySQL database (PHP, Javascript, MooTools, MySQL)
- Building backend services to connect to several 3rd parties providers for personal ID and Anti-money laundering checks, payment gateway, stock settlement and historical stock database (Java, ActiveMQ, SOAP, Apache CXF, XML-RPC, FIX Protocol, SQL Server)
- Automated the deployment and building process for continuous integration and deployment (Git, Maven, bash)
- Server configuration in Linode, Red Hat in Rackspace and Amazon AWS. Server deployment automation with Puppet (Linux CentOS, Amazon EC2, Amazon RDS, MySQL, Puppet)
- Simulate a publish/subscribe service of limit orders to mock the expected behavior of a 3rd party (Akka, Actor model)
- Created RESTful API and developed native Android mobile application (Ruby on Rails, API, REST, Java, Android)
- Import market data into database (Python, Celery, REST client, SQLAlchemy)

### Consultant

Novabase | November 2010 - August 2011

Consultant CRM - Portals

- Developing portlets for the website and back-office administration area of DNS.pt, the foundation managing all top-level .pt domains (Java, Liferay)
- Developed web user interface for DNS.pt (jQuery, Apache Axis2, Web Services, PL/SQL, Oracle 10g)
- Integration of the clients' website with the payment system used for handling Mastercard and Visa cards (Java, Web Services, SOAP)
- Migrated 400.000 users to the new platform (Python, SOAP)

## Independent Web Developer

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

Created the website for the ISCTE-IUL MIT Portugal Venture Competition, also provided support and training for the people maintaining the site (Joomla, PHP, HTML, CSS and MySQL)

## Developer

Caixa Mágica Software | July 2009 - June 2010

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

- Developed web platform for user submitted content and integration with an automated packages build system (PHP, HTML, PostgreSQL)
- Extended continuous integration tool to build Linux packages (Python, Buildbot, Bash, RPM)
- Created Linux packages (Linux, RPM)
- Built virtual machines for the whole package and building process (XEN)

## Master in Management and Computer Science

ISCTE | 2005 - 2010

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

## SIDE PROJECTS

### Android Native app with backend

Dicionário de Português - <https://play.google.com/store/apps/details?id=uk.me.andre.dicionarioportugues>

- Portuguese offline dictionary (Android, Java, SQLite, Material UI)
- Google Cloud Message GCM notifications for word of the day (Java, Dropwizard, REST)

## EDUCATION

- MSc in Management and Computer Science | 2005-2010

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

- Developing Android Apps - Android Fundamentals | 2015  
Udacity (course co-created by Google)

- Fundamental Consulting Skills | 2011  
Novabase, Lisbon

- Linux training (summer internship) | 2009  
Caixa Mágica, Lisbon

## INTERESTS

- Freediving
- Private pilot
- Creative Commons