

# 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
- Functional GUI testing using Sikuli coded in Python
- Helped with hiring new staff for Ring Fenced Bank project, interviewing, on boarding and training
- Fix C++ memory leaks, migration to SMTP
- Setup and improve code coverage

### 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 PHP/Javascript front-end and MySQL database
- 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 AMI 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
- Create RESTful API with Ruby on Rails and developing a native Android mobile application
- Python/Celery tasks to import market data from REST API and insert with SQLAlchemy

### 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-ieji.org](http://mitportugal-ieji.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
- Using Python extended BuildBot functionality
- 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

## 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 with SQLite, Material Design, share widget, find by selected word
- Google Cloud Message GCM notifications for word of the day backend with Java Dropwizard framework

## KEY SKILLS

- Python, Ruby, C#, Java, JavaScript, 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/>
- Developing Android Apps - Android Fundamentals  
Udacity (course co-created by Google)
- Fundamental Consulting Skills  
Novabase, Lisbon
- Linux training (summer internship)  
Caixa Mágica, Lisbon

## REFERENCES

References are available on request.