André Ricardo

Software Developer
andre.me.uk
andre.p.ricardo@gmail.com
London

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

Senior Python Developer
MADE.COM | May 2022 – Nov 2022 (company closure)

Back-office team

• Working on replacing large monolith Enterprise Resource Planning (ERP) software with event driven micro-services responsible for allocation and inventory (Python, EventStore, Domain-Driven Design, PostgreSQL, Docker, AWS)

• Full-stack development on internal web application for Stock Keeping Units (React, TypeScript, Next.js, GraphQL, Prisma, PostgreSQL, Docker)

Senior C# Software Developer
HSBC | September 2011 – March 2022

Technical lead for team that built Mortgages Macro Fair Value Hedging (MFVH) web application

• Built web API and single page application to support daily hedging process (React, Typescript, ASP.NET Core, C#, SQL Server)

• Integrate with internal APIs (C#, .NET Core)

• Hired and lead a team of 4 developers for the MFVH project

Enterprise Inventory Management (EIM) API

• Extend API to enable automated process (Python, Flask, REST)

Work within Product Control on their hedge effectiveness testing reports

• Profit and Loss web dashboard across businesses (React, Javascript, ASP.NET Core, C#, LINQ, SQL Server)

• 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, TDD)

• 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, on-boarding and training new staff for Ring Fenced Bank project

• Fix memory leaks (C++)

Full-stack Software Developer
The Share Republic.com Ltd | September 2011 – October 2017

Online share dealing platform startup

• Add components and integrate with front-end and MySQL database (PHP, Javascript, MooTools, MySQL)

• Connect services to 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)

• Automate deployment and building process for continuous integration and deployment (Git, Maven, bash)

• Server configuration and 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 behaviour 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 CRM - Portals
Novabase | November 2010 – August 2011

- 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 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
- Extended continuous integration tool to build Linux packages (Python, Buildbot, Bash, RPM)
- Developed web platform for user submitted content and integration with an automated packages build system (PHP, HTML, PostgreSQL)
- 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, learning the Ukulele, video games, Raspberry Pi