

André Alexandre, B.Eng. Computer Science and Engineering

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Software Development Engineer

I'm a Software Engineer through and through, I'm moved by the challenge and always aiming for excellence.

I consider myself a Engineer the first and foremost, programming languages for me are mere tools for achieving a goal.

If you ask me to use some new technology I will learn it, understand it and go a little further with the aim to really understand the goods and bads of using a new/foreign technology.

I have experience in the full process of creating and maintaining a backend server applications.

Ability to work in a team environment and multiple projects. Clear understanding of Object Oriented Programming principles and Design Patterns, and a apologist of SOLID principles and clean code. Even though my experience is in managed languages like Java or C#, I also have some knowledge of low-end programming like C/C++, Embedded Systems. Also have the ability to learn new skills and technologies rapidly and keen to explore subjects outside my comfort zone.

Skills & Expertise

- **Java SE and EE Development**
- **.NET, C#, ASP.NET and WCF**
- **Databases: MySQL, MSSQL, Oracle, DB2**
- **IDE: IntelliJ and Visual Studio**
- **Distributed Systems: REST, Kafka, Cassandra**
- **Push Notifications: GCM & APNS**
- **Source Control: Git**
- **Continuous integration: Jenkins**
- **Project Management: Redmine, Jira**

Work Experience

Backend Software Engineer - Teckro

Dublin, Ireland. October 2016 to Present

Working at the moment with most of the Teckro's platform backend code base. Most of my responsibilities are down to implementing new REST endpoints, Kafka producer/producers to support new functionalities, also some of these implementation rely on knowledge of existing data models in MySQL and Cassandra.

Also learned a lot of about ElasticSearch and using tools like Kibana and Sense to assist me in debugging some issues. I worked in most of the migration for ElasticSearch client from transport to REST, so I'm pretty familiar with it's API.

Since the I been there for more than two years, I can say I have a good in-depth knowledge of the business and the implementations. And also been able to help newcomers to set up their environments locally and allow them to quickly be more productive without relying on another colleague to get their work done.

Lately been trying to push for the usage of RFCs as a standard inside the company, with the help of other senior staff, to document engineering decisions.

Also made an extra effort to document data models and anything that I might find useful to help other engineers and newcomers and avoid frustrations with dealing with some undocumented components in the platform.

Also did some front-end work in angular 1.x when necessary.

Backend Software Development Engineer - Innovation Makers

Lisbon, Portugal. February 2014 to September 2016

I'm was able to achieve high respect from my peers while working as a Backend Software Development Engineer, for example I was able to introduce simple, yet powerful, documentation techniques for REST/SOAP Services using the already in place Redmine Wikis, with this creating a new standard in the whole development pipeline.

Also every time I could, I would change older projects Ant building system to Maven building, with this I achieved a simpler way of managing all code dependencies. With this I managed to set Maven as the new standard for new projects from there on.

I was also able to introduce some new design patterns, like Inversion of Control and Dependency Injection, in this way making the refactoring/maintenance process of projects much more easier and less cumbersome.

The introduction to the usage of GitFlow was something I managed to do before leaving Innovation Makers, with this achieving a better way of controlling the development process of new features and also the release of new version for production.

In the last 8 months was responsible for writing new code and modifying code to implement new features for several projects. Currently working and leading a team of 6 Software Engineers and Backend Developers. I was also responsible for some REST API definitions and documentation.

At Innovation Makers I had worked at the following projects:

- Champalimaud Foundation - Public API for Champ@me apps (6 months)

Responsible for new code and modifying existing code to implement new features. With a week of research on Push Notifications technologies and was able to develop a small package of classes capable of sending push notification to android and iOS apps.

Technologies: Java, JAX RS - Jersey, JDBC, Ant, Tomcat, Maven

Project case-studie: <http://inm.pt/#projectos/fundacao-champalimaud>

- RE/MAX CRM Apps (2 months)

Responsible for new code and modifying existing code to implement new features. I was able to achieve with minimum effort, the implementation of push notifications reusing the code created in the last mentioned project.

I also achieved integration with the OAuth authentication of RE/MAX's CRM, for basic session info queries.

Technologies: Java, JAX RS - Jersey, JDBC, Tomcat, Maven, OAuth

Project case-studie: <http://inm.pt/#projectos/remax-portugal>

- Jogos Santa Casa App (1 year)

Middleware integration with Jogos Santa Casa's social games portal to enable mobile apps to access some of the already in place functionalities but through REST. I was responsible for REST API definition and implementation. Responsible for close work and meeting with client internal development team for integration with Java EE's EJBs and extension of new functionality like Push Notification.

Technologies: Java, JAX RS - Jersey 2.x, JPA - EclipseLink, Maven, EJBs, Weblogic

Project case-studie: <http://inm.pt/#projectos/jsctl>

- Multi-channel Mobile Payments Middleware (1 year)

Development of new prototype for mobile payments middleware. Close work with Android and iOS teams for REST services definition and implementation. Introduction of dependency injection framework Guice.

Technologies: Java, JAX RS - Jersey 2.x, JPA - Hibernate, Guice 4.0, Maven, Tomcat

- Multi-channel Banking Middleware (1 year)

Development of new middleware for a multi-channel banking solution product, currently in production in two banks, Banco BAI (Angola) and Banco MAIS (Mozambique).

Responsible for the Back-end Development Team and Software Architecture of the back-end solution. Responsible for delegation of some tasks and team knowledge support.

Integration with core banking software running in IBM's AS400.

Responsible for introduction and research of Wildfly Application Server.

Technologies: Java, JAX RS - Jersey 2.x, JPA - Hibernate, Guice 4.0, Maven (Multimodule project), Wildfly

Freelancer Software Developer

Lisbon, Portugal. February 2013 to January 2014

Worked mainly with ASP.NET MVC developing a web application focused in a laundry bussiness flow management. Responsible for all code written and maintenance. I was able to solidify some of my .NET, ASP.NET and C# knowledge and learn more about them, like the Parallel Task API, LINQ and EntityFramework.

Tecnologies: C#, ASP.NET, ASP.NET MVC 4, EntityFramework (Database First)

Education

Lisbon, Portugal. September 2007 to August 2012

Bachelor's Degree of Computer Science and Engineering - 15 out of 20

High Institute of Engineering of Lisbon

Languages

- Portuguese (native)
- English (advanced) speaker and writer

Recommendations

A recommendation from my former employer Ricardo Portela from Innovation Makers:

Recommendation Letter

September 20th 2016

Dear Mr./Mrs.

This is my personal recommendation for André Alexandre, who has been working as a Backend Software Development Engineer for the last year and a half at INM – Innovation Makers, under my supervision. He is a professional, responsible and competent employee, who has shown to have all the scientific and technological background that was a key-factor to the success and conclusion of several of our national and international projects. He has successfully introduced the usage of several foundational frameworks and patterns amongst our most recent projects, with outstanding results.

André also has great commitment to delivery dates and has made outstanding efforts in order to accomplish very difficult delivery dates on one of the key projects developed by our company for the last couple of years.

During the last 3 years, André made a great impression on our team and accomplished all tasks that were required of him, and sometimes even going a step further than required. He will for sure make an important addition to future companies and teams wishing to excel in his areas of expertise.



Ricardo Portela
Partner and CTO
Innovation Makers