

# Europass Curriculum Vitae

## Personal Information

First Names / Surnames

Address

Mobile

Email

Website

Nationality

Date of Birth

Gender

**Ricardo Filipe Gomes Amaral**

(not shown due to privacy protection)

(not shown due to privacy protection)

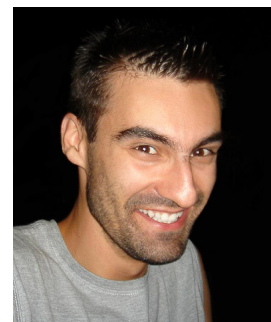
(not shown due to privacy protection)

<http://ricardoamaral.net>

Portuguese

5<sup>th</sup> May, 1984

Male



## Occupational Field

**Software Engineering / Programmer**

## Work Experience

Dates

Occupation or Position Held

Main Activities and Responsibilities

Type of Business or Sector

Dates

Occupation or Position Held

Main Activities and Responsibilities

Name and Address of Employer

Partner

Type of Business or Sector

September 2011 → Present

**Independent Android Programmer**

Applications conception and development for the Android platform with the highest requirements for quality, achieving them with best practices and development and design standards. Currently with one application published in the Play Store named 'Notification Agenda'.

Mobile Application Development

October 2004 → January 2008

**Web Developer**

Development of a content management system (CMS) including various web applications such as main content management, news management, portfolio management, online and dynamic applications form and *newsletters*. This using technologies such as PHP, MySQL, HTML, CSS and JavaScript.

HighBrand (<http://www.hb.com.pt>)

1700-116 Lisboa, PORTUGAL

Rui Rocha ([rui.rocha@hb.com.pt](mailto:rui.rocha@hb.com.pt))

Software Development

## Education and Training

Dates

Title of Qualification Awarded

Principal Subjects / Occupational Skills Covered

Name and Type of Organisation Providing Education and Training

September 2005 → July 2012

**Informatics Engineering (BSc)**

Elements of Systems Engineering; Functional Programming; Imperative Programming; Computing Systems; Algorithms and Complexity; Computer Architectures; Calculus of Programs; Data Communications; Object-Oriented Programming; Operating Systems; Databases; Computer Graphics; Computer Communications; Development of Software Systems; Language Processing; Computer Networks; Knowledge Representation and Reasoning Systems; Distributed Systems.

University of Minho

4710-057 Braga, PORTUGAL

Dates	September 1999 → July 2005																												
Title of Qualification Awarded	<b>Undergraduate in a Computer Technology Course</b>																												
Principal Subjects / Occupational Skills Covered	Programming Languages and Techniques; Computer Applications; Introduction to Information Technologies; Structure, Organisation and Data Processing.																												
Name and Type of Organisation Providing Education and Training	José Régio High School 4480-794 Vila do Conde, PORTUGAL																												
Date	November 2003																												
Event	<b>Seminar “Entrepreneurship - Innovation in Motion”</b>																												
Organisation of Training	Academy of Entrepreneurs																												
<b>Personal Skills and Competences</b>																													
Mother Tongue	<b>Portuguese</b>																												
Other Languages																													
<i>Self-Assessment European Level<sup>(*)</sup></i>																													
<b>English</b>	<table><tr><th colspan="4">Understanding</th><th colspan="4">Speaking</th><th colspan="2" rowspan="2">Writing</th></tr><tr><th colspan="2">Listening</th><th colspan="2">Reading</th><th colspan="2">Spoken Interaction</th><th colspan="2">Spoken Production</th></tr><tr><td>C1</td><td>Proficient User</td><td>C1</td><td>Proficient User</td><td>B2</td><td>Independent User</td><td>B2</td><td>Independent User</td><td>C1</td><td>Proficient User</td></tr></table> <p><sup>(*)</sup> <i>Common European Framework of Reference (CEF) Level</i></p>	Understanding				Speaking				Writing		Listening		Reading		Spoken Interaction		Spoken Production		C1	Proficient User	C1	Proficient User	B2	Independent User	B2	Independent User	C1	Proficient User
Understanding				Speaking				Writing																					
Listening		Reading		Spoken Interaction		Spoken Production																							
C1	Proficient User	C1	Proficient User	B2	Independent User	B2	Independent User	C1	Proficient User																				
Social Skills and Competences	<ul style="list-style-type: none"><li>• Good ability to work individually or as a team with a strong sense of responsibility on any of the situations;</li><li>• Ability to respond well under pressure preserving a professional rigour;</li><li>• Excellent communication and argumentation ability coupled with a critical thinking;</li><li>• Ability to take the initiative and make diligent careful decisions.</li></ul>																												
Organisational Skills and Competences	<ul style="list-style-type: none"><li>• Ability to manage projects with a sense of organization and competence;</li><li>• Ease of transmission of knowledge and development methodologies;</li><li>• Elevated ability for self-criticism and self-evaluation of the work performed.</li></ul>																												
Computer Skills and Competences	<ul style="list-style-type: none"><li>• Languages and/or Technologies (Intermediate-Advanced): PHP, C#, Java, HTML, CSS, JavaScript, jQuery, JSON and SQL;</li><li>• Languages and/or Technologies (Basic-Intermediate): C/C++, VB.NET, Haskell, Prolog, XML and LaTeX;</li><li>• Languages and/or Technologies (Others): ASP.NET, ActionScript, Pascal, PL/SQL, UML, Razor and Swing;</li><li>• Database Management Systems: MySQL, Oracle, SQL Server and SQLite;</li><li>• Version Control Systems: Git and SVN;</li><li>• Miscellaneous: Android SDK, OpenGL, MVC, Apache HTTP Server, Flex (Lexical Analyser Generator), Yacc (Compiler Generator) and Regular Expressions.</li><li>• Operating Systems: Microsoft Windows, Mac OS X and Linux;</li><li>• Integrated Development Environments: Microsoft Visual Studio, Eclipse, NetBeans and Oracle SQL Developer;</li><li>• Productivity Software: Microsoft Office, OpenOffice/LibreOffice, Adobe Photoshop, Adobe Illustrator, Adobe Lightroom, Adobe Premiere Pro, Adobe After Effects, Adobe Flash and Adobe Dreamweaver;</li><li>• Computational Software: Mathematica, MATLAB.</li></ul>																												
Artistic Skills and Competences	<ul style="list-style-type: none"><li>• Photography.</li></ul>																												
Other Skills and Competences	<ul style="list-style-type: none"><li>• Ease of learning and research autonomously.</li></ul>																												

Driving License	B Category
<b>Additional Information</b>	
Publications	«Basic templating system in PHP», PROGRAMAR Magazine (9 <sup>th</sup> Edition), <a href="#">Portugal-a-Programar</a> Community, July 2007.
Programming Contests	<p>«androidPT Programming Contest», Notification Agenda Application, 2<sup>nd</sup> Place, <a href="#">AndroidPT</a> Community, November 2011.</p> <p>«Programming Tournament for High School Students (ToPAS)», 3<sup>rd</sup> Place, Department of Computer Science, Faculty of Sciences of University of Porto, May 2005.</p> <p>«Programming Tournament for High School Students (ToPAS)», 4<sup>th</sup> Place, Department of Computer Science, Faculty of Sciences of University of Porto, May 2004.</p>
<b>Appendices</b>	
Appendix I	Personal Projects Developed
Appendix II	University Projects Developed

## Appendix I

### Notification Agenda

Android Application

Technologies Used

Project Summary

### Personal Projects Developed

<http://play.google.com/.../details?id=net.ricardoamaral.apps.notificationagenda>

Android SDK

Simple application which turns small notes into pleasing status bar notifications with fancy high quality icons.

### FireNotes

Windows Application

Technologies Used

Project Summary

C#

A simple tool with a personalized look and feel that allows you to take notes in a conveniently and organized way.

### Network Switcher

Windows Application

Technologies Used

Project Summary

VB.NET

This application with an intuitive interface allowing you to configure your computer network adapters and switch between configurations through profiles.

### Easy Settings

.NET Library

Technologies Used

Project Summary

C# / XML

Simple and easy to use library to manage settings/preferences of any application developed in any .NET language, storing them in an XML file.

### Other Projects

In addition to the most relevant projects and outlined above, there are others that can be found on my [GitHub](#) profile and/or on my personal website; depending on their open source development context, or not.

## Appendix II

### Travel Recommendation System

Windows Application

Technologies Used

Project Summary

Computer Labs IV

Orlando Belo

C# / UML / SQL Server / ASP.NET / Razor / MVC

This project involved the conception, analysis and requirements specification, development, documentation and maintenance of a software system. The submitted idea to accomplish this project within the proposed 'Travel Recommendation System' was "low cost flights in Europe".

### UDP.Friendly

Windows Application

Technologies Used

Project Summary

Computer Communications

António Costa

C# / UDP

The main purpose of this project was to develop a protocol layer over UDP allowing the data transmission rate to be adjusted according to the network load levels. As proof of concept two applications were developed — according to the client-server model — enabling transmission of data.

### Treasure: Planet XPTO

Windows Game

Technologies Used

Computer Graphics

António Ramires Fernandes

C & C++ / OpenGL & GLUT

Project Summary	This project aimed the development of some sort of Role-Playing Game both in first and third person. The objective was to employ the knowledge acquired throughout the semester, involving concepts such as coordinate systems, lighting, textures, Display Lists, View Frustum Culling, VBOs, etc...
<b>Turtly Turtle Movie Database</b> Windows and Web Application	Databases José Manuel Machado
Technologies Used	C# / PHP / HTML / CSS / JavaScript & jQuery / Oracle & PL/SQL
Project Summary	This project aimed to acquire knowledge of the Oracle DBMS, having the film industry as theme. Two applications were developed, one as a Web front end for users to consult information and a Desktop one for database administration and maintenance.
<b>Simplex Algorithm</b> Web Application	Deterministic Models of Operational Research José António Oliveira
Technologies Used	PHP / HTML / CSS / JavaScript & jQuery
Project Summary	This project consisted in developing an application capable of solving maximization and minimization linear programming problems. These problems were solved resorting to an implementation of the Simplex algorithm, with Primal or Dual feasibility.
<b>Just Friends / Always Connected</b> Linux and Windows Application	Computer Labs III António Nestor Ribeiro & Luís Paulo Santos
Technologies Used	C / Java / Swing / MVC
Project Summary	Bound to the same Curricular Unit, two quite similar projects were developed. Both consisted in the development or use of data structures — using different languages — being both implementations based in a simplified version of the LinkedIn social network.
<b>AEROGEST</b> Windows Application	Object-Oriented Programming F. Mário Martins
Technologies Used	Java
Project Summary	This project aimed to apply all the knowledge acquired throughout the semester about the object-oriented programming paradigm. The project consisted in developing a “flight management system”.
<b>Remark</b>	The projects above do not account for all projects developed during the undergraduate school, being listed only those deemed most important or relevant.