



## Europass Curriculum Vitae

### Personal information

|                            |  |        |           |
|----------------------------|--|--------|-----------|
| First name(s) / Surname(s) | <b>Carlos Jorge Velez Mão de Ferro</b>       |        |           |
| Address                    | Rua do Parque 10, 1500-482 Lisboa (Portugal) |        |           |
| Telephone(s)               | 217649895                                    | Mobile | 916286573 |
| E-mail(s)                  | cajomferro@gmail.com                         |        |           |
| Nationality                | Portuguese                                   |        |           |
| Date of birth              | 09 November 1988                             |        |           |
| Gender                     | Male   |        |           |

### Work experience

|                                      |   |
|--------------------------------------|---|
| Dates                                | 27 September 2010 →   |
| Occupation or position held          |   |
| Main activities and responsibilities | Teaching six hours per week of practical lectures on Programming (C language) for undergraduate students. |
| Name and address of employer         | Faculdade de Ciências da Universidade de Lisboa<br>1149-016 Campo Grande Lisboa (Portugal)                |
| Type of business or sector           | Education   |
| Dates                                | July 2010 - September 2011  |
| Occupation or position held          | Junior Researcher - Amadeu Dias Scholarship (B. Sc. Student)  |
| Main activities and responsibilities | - Slider: an object-oriented compiler with dynamic assertions   |
| Name and address of employer         | Lasige - Faculdade de Ciências da Universidade Lisboa<br>1149-016 Campo Grande Lisboa (Portugal)          |
| Type of business or sector           | Computer Science - Programming Languages and Compiler Design  |

### Education and training

|  |   |
|--|---|
| Dates  | September 2011 →  |
| Title of qualification awarded                                 | M. Sc., Informatics   |
| Principal subjects / occupational skills covered               | -- Distributed Systems Programming (RPC, CGI, CORBA, Enterprise Java Beans)<br>-- Database Technologies (PL-SQL, Oracle, Java)<br>-- Software Security (OS security, Languages and Web Vulnerabilities, Tools)<br>-- Scientific Data Visualization and Virtual Animation (Graphical representation of data, Augmented Reality)<br>-- Parallel Computation (concurrency, process synchronization and communication, multiprocessor and cluster architectures, PThreads, MPI, OpenMP)<br>-- Knowledge Management (Knowledge management strategy and technology in organizations)<br>-- Programming Languages and Compiler Design (computer languages, grammars, parsing, representation structures, machine code generation)<br>-- Software Testing (conceiving, analysing and executing verification and validation plans for a software project, junit framework)<br>-- Web Applications (Service oriented architectures, Web Services, Ajax applications and Semantic Web) |
| Name and type of organisation providing education and training | Faculdade de Ciências da Universidade de Lisboa (University)<br>1149-016 Campo Grande Lisboa (Portugal)   |

|  |   |
|--|---|
| Level in national or international classification              | Expected 16/20  |
| Dates  | September 2008 - July 2011  |
| Title of qualification awarded                                 | B. Sc., Information and Communication Technologies (Minor in Biology)   |
| Principal subjects / occupational skills covered               | Major main topics: object-oriented (Java), logic (Prolog) and imperative/procedural programming (C), computer architectures, operating systems, assembly language programming, computer networks, distributed systems, security, software analysis and design, software components (working with JavaEE technology), web development, mathematics, statistics<br>Final project (Information and Networks Technologies) in cooperation with Escola de Mar (ICAT-FCUL): BIMP - Biodiversity Investigation Management Platform |
| Name and type of organisation providing education and training | Minor in Biology main courses: Animal and Plant Biology, Genetics and Molecular Biology, Bioinformatics, Environment and Conservation Biology, Evolution<br>Faculdade de Ciências da Universidade de Lisboa (University)<br>1149-016 Campo Grande Lisboa (Portugal)   |
| Level in national or international classification              | 16/20   |
| Dates  | September 2007 - July 2008  |
| Title of qualification awarded                                 | First Year in Classical Music (Flute)   |
| Principal subjects / occupational skills covered               | Main courses: Theory of Music, Flute  |
| Name and type of organisation providing education and training | Koninklijk Conservatorium (University)<br>Juliana van Stolberglaan 1, 2595 CA - The Hague (Netherlands)   |
| Dates  | September 2006 - July 2007  |
| Title of qualification awarded                                 | First Year  |
| Principal subjects / occupational skills covered               | Main courses: Theory of Music, Flute  |
| Name and type of organisation providing education and training | Academia Nacional Superior de Orquestra (University)<br>Travessa da Galé, 36, 1349-028 Lisboa Lisboa (Portugal)   |
| Level in national or international classification              | 15/20   |
| <b>Personal skills and competences</b>                         |   |
| Mother tongue(s)   | <b>Portuguese</b>   |
| Other language(s)  |   |
| Self-assessment  |   |
| European level (*)   |   |
| English  |   |
| French   |   |
| Social skills and competences                                  | On September 2011 becomes member of "Comissão de Alunos do Departamento de Informática (CADI-FCUL)" as main coordinator.<br><br>On 2011/2012 is first year delegate of Informatics Master for the Pedagogic Council<br><br>From 2009 to 2011 is delegate of LTIC Bachelor for the Pedagogic Council   |

On September 2009, attends the course "Formação de Mentores" (Mentors Training) offered by Gabinete de Apoio Psicopedagógico and becomes mentor for first year students under the initiative of welcoming first year students.

Main skills:

- Strongly motivated in all projects he participates
- Self-taught (tries to discover new things for himself and to learn new subjects)
- Perfectionist and ambitious
- Communicative and used to public performing (played in several concerts and auditions since he was a child, opening speech in the meeting ENEI'12)
- Good team spirit (played in ensembles, orchestras and played team sports, several scientific group projects)
- Responsible
- Good entrepreneurship spirit

Organisational skills and competences

On 2011/2012 organizes "Encontro Nacional de Estudantes de Informática" (National Meeting for Computer Science Students) on April 2, 3 and 4 in Faculdade de Ciências da Universidade de Lisboa as CADI-FCUL main coordinator, with near 250 students enrolled, where several speakers participated and with the support of several companies including Microsoft, Opensoft, Novabase, Accenture, Altitude, Capgemini, Outsystems, Altran, PrimeIT, CreatelT and iCreate (more information available at <http://2012.enei.net>).

Technical skills and competences

On February 2012 participates in the workshop "Massive data analysis and large-scale computational modeling in ecology and plant systems biology" in Universidade Nova de Lisboa, Monte da Caparica with Prof. Amir Assadi as invited foreign speaker. On this workshop presents a group project (with André Matias) developed for the course of Visualização (Prof. Beatriz Carmo and Ana Paula Cláudio) in cooperation with a teacher from Departamento de Biologia Vegetal - FCUL (Cristina Cruz).

On September 2010 attends the workshop "Técnicas Básicas de Comunicação Oral" (Basic oral communication techniques) held by Sofia Frazoa and organized by Escola de Mar (ICAT-FCUL).

Computer skills and competences

Education:

On July and November 2011 attends the series of meetings "Ardworks" - Augmented Reality With Arduino, Small Toys - organized by SITI - Universidade Lusófona.

On 2010 attends the "Workshop Android Hands On" held by Droid Team Opensoft and attends the meeting "Microsoft Tech Days Portugal | 2010".

From September 1998 to July 1999 attends a course organized by "Classe 86 - Escola de Informática" with the following subjects:

- Informática Fundamental Multinível (Nível I)
- Iniciação à Informática e Windows 98 Processador de texto Microsoft Word 97
- Folha de Cálculo Microsoft Excel 97
- Introdução à Internet e navegação

Skills:

Acquainted with Mac, Linux and Windows operating systems.

Good knowledge of C and Java programming languages and JEE technology.

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|---------------------------------|--|
|                                 | <p>Worked also with: SQL, PL/SQL, MySQL, SQLite, HTML, Javascript, jQuery, AJAX, XML, PHP, Python, PROLOG, Shell, Assembly, CIL, JVM, JPA, JPQL, JSP, Servlets, Enterprise Java Beans, Java Swing, Java SWT, MATLAB, VTK, OpenMP, OpenMPI, SVN.</p> <p>Good command of Microsoft Office TM (Word, Excel and PowerPoint TM) and OpenOffice.</p> <p>Frameworks: Eclipse, Netbeans, X-Code, Emacs, AUTOCAD, Paraview, Protégé- Frames, VisualParadigm, SableCC, Navicat, Oracle SQL Developer, Yii, YVision.</p> <p>Servers: Apache Web Server, Glassfish, Apache Tomcat, Haproxy, LVS (Linux Virtual Server), Keepalived, Pound, Apache TomEE &amp; OpenEJB.</p> <p>Basic knowledge of mobile platforms for pleasure and curiosity (Android and Maemo).</p> <p>Basic knowledge of Arduino and electronics.</p> <p>Ease in learning any type of programming language.</p> |
| Artistic skills and competences | <p>Advanced knowledge of Flute and Musical Theory</p> <p>Basic knowledge of Piano and Guitar</p>   |
| Driving licence(s)              | B, B1  |
| <b>Additional information</b>   | <p>On 2010 is mentioned on a publication from Info-Ciências digital, scientific journal from Faculdade de Ciências, dedicated to all students awarded with Amadeu Dias scholarship for the school year 2010/2011.</p> <p>On 2010 is accepted in the Minor in Biology (first position).</p> <p>On 2010 is awarded with the annual scholarship for investigation from Fundação Amadeu Dias Universidade de Lisboa mentored by professor Francisco Martins.</p> <p>On 2010 is awarded with the honorable mention "Melhores Alunos do 1o Ano, 1a Vez, do ano lectivo 2008/2009" (Best Students, First Year First Time) from Fundação FCUL and receives a merit scholarship.</p> <p>Member of ACM (Association for Computing Machinery) since August 2009.</p>  |