

# João Pedro Dias

## Curriculum Vitæ

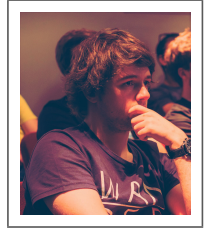
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### Education

- 2011–Present **Master in Informatics and Computing Engineering**, *Faculdade de Engenharia da Universidade do Porto*, GPA: 15 out of 20.  
Honors and Awards: 2nd Place European BEST Engineering Competition (1st Place on Local (Porto) and National (Portugal) Stages).  
Other Activities: Volunteer at *Semana Profissão: Engenheiro (SPE)*, *Inter-University Programming Marathon (MIUP)* 2014 and *INForum - Symposion on Informatics* 2014. Member of NuIEEE (IEEE Student Branch – Universidade do Porto).
- 2003–2011 **General Schooling - Sciences and Technologies**, *Externato de Vila Meã*, GPA: 17 out of 20.  
Honors and Awards: Honors & Awards: Honours Board 9th Grade; 2nd Place PmatE Fis12; 1st Place PmatE Mat12

### Academic Development

- Master Dissertation *Reverse Engineering Static Content and Dynamic Behaviour of E-Commerce Websites for Fun and Profit* – Data mining (Web Mining) and information representation from e-commerce websites and costumers for machine learning proposals. Proof-of-concept built in **Scala** and **MongoDB**.  
<http://jpdias.me/kugsha/>
- aWareHouse IoT low-cost solution to watch and record environment conditions with configurable notifications. Built with **Raspberry Pi** and **Arduino** using **C**, **Python**, **InfluxDB** and **Grafana**.  
<http://jpdias.me/aWareHouse/>
- botnet-lab *A hands-on approach on botnets for a learning proposal* – An IRC based tool for learning and experiment with botnets, built with **Python** for Computer System Security Course.  
<http://jpdias.me/botnet-lab/>  
Public Communications: IJUP 2016 – 9th Meeting of Young Researchers of U. Porto (<http://ijup.up.pt/>) and OPOSEC Meetup – Porto.
- ShARE UP: Case Sharing A Case Study sharing platform developed for ShARE – U. Porto, connecting the enterprise world with the academic environment. Built with **PHP** and **Twig Template Engine**. Project leader and developer.  
<https://paginas.fe.up.pt/~shareup/>
- Windows App Development Development and publication of three Windows 10 Mobile applications, namely *Lightning Distance*, *Electric Assistant* and *Trigmeter*. Developed with **C#** and **XAML** with over 3500 downloads.

### Experience

- Jul–Aug 2015 **Summer Engineering Intern**, *ShiftForward, S.A.*, Development of a Deploy Logger Service, a service for documenting and recording the release of new product versions over time. Built using **Scala** and **Backbone.js**.  
<https://shiftforward.github.io/malamute/>

Jul–Aug 2014 **IT Department Internship**, *Centro Hospitalar do Tâmega e Sousa, E.PE.*, Development of an expedient management system for replacing the existent system based on paper archives. Developed using **PHP**, **JavaScript**, **HTML5**, **CSS (Bootstrap)** and **MySQL**.

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## Professional Development

- 2016 **AWS Technical Essentials Online**, *Amazon Web Services – Training and Certification*. AWS Technical Essentials Online introduces AWS products, services, and common solutions. It provides the basic fundamentals to become more proficient in identifying AWS services.
- 2015 **Practical Workshop in Agile Project Management**, *Strongstep - Innovation in software quality*.  
Practical workshop on Agile project management using SCRAIM.
- 2015 **CERN Spring Campus**, *CERN - European Organization for Nuclear Research*.  
Over 3 intensive days, this event brings together experts from around CERN, to meet with future engineers and scientists in a program of scientific and technological dissemination and cultural exchange.
- 2014 **M101JS: MongoDB for Node.js Developers**, *MongoDB University*.  
This course goes over basic installation of MongoDB, JSON, schema design, querying, insertion of data, indexing and working with the Node.js driver.

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## Pro Bono Activities

- 2015–2016 **Web Communication Co-chair**, *2016 IEEE 19th International Conference on Intelligent Transportation Systems (ITSC 2016)*.  
IEEE ITSC is the annual flagship conference of the IEEE Intelligent Transportation Systems Society. My responsibilities include the creation and maintainance of the official conference Website (<http://ieee-itsc2016.org/>).
- 2015 **Conference Chair**, *Talk a Bit – Technology Conference, 4th Edition (2016)*, Porto.  
Talk A Bit is a student organised conference where hot technology topics are discussed. The 4th edition focused "The Social Impact of Technology" (<http://talkabit.org/>).
- 2013–2015 **Executive Committee (Secretary)**, *IEEE Student Branch – Universidade do Porto*.  
As a voluntary member I had organized and co-organized some workshops (**C#**, **Photography**, **Latex**, **Web Development**) and other events (IEEE Day, IEEEExtreme, IEEEmadC). As secretary I was also responsible for maintain the minutes of all meetings and other paperwork.
- 2009–2011 **Member**, *Grupo de Jovens Luz da Vida*, Amarante, Porto.  
Founder and active member, I had taken part of large number of activities on behalf of the village community (<https://www.facebook.com/grupojovensluzdavid/>).

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## Skills

Programming	C, C++, Node.js, PHP, Java, Scala, Python, Web Technologies (HTML, Javascript, CSS)
Databases	MongoDB, MySQL, MariaDB, SQLite, InfluxDB
Tools	git, Microsoft Visual Studio, IntelliJ IDEA
Design Tools	Adobe Photoshop, Adobe Fireworks, Adobe InDesign, Adobe Illustrator
Methodologies	TDD, Scrum, Pair Programming, XP

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## Languages

Portuguese	<b>Native</b>
English	<b>Fluent</b>