João Pedro Dias

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Summary

Current Researcher at the Artificial Intelligence and Computer Science Lab. Recently graduated from the Integrated Masters in Informatics and Computing Engineering, I'm passionate about technology, with a special focus on security and privacy, web development, data mining & Internet of Things. Besides that, I'm also an amateur photographer, football player, book lover and science addict.

Education

Faculty of Engineering, University of Porto (FEUP)   *Porto, Portugal*

MSc in Informatics and Computing Engineering - GPA: 15 / 20   *2011–2016*

- Volunteer at *Semana Profissão: Engenheiro (SPE)*, *Inter-University Programming Marathon (MIUP) 2014* and *INForum - Symposon on Informatics 2014*.

Externato de Vila Meã   *Amarante, Porto, Portugal*

Sciences and Technologies - GPA: 17 / 20   *2008–2011*

Experience

INESC TEC – Institute for Systems and Computer Engineering, Technology and Science | CSIG – Centre for Information Systems and Computer Graphics   *University of Porto, Porto, Portugal*

Researcher   *May 2017 –*

- Researching in the area of Internet of Things, with special focus on Blockchain and Healthcare applications, in the scope of the project NanoSTIMA: *Macro-to-Nano Human Sensing: Towards Integrated Multimodal Health Monitoring and Analytics*.

LIACC – Artificial Intelligence and Computer Science Laboratory   *University of Porto, Porto, Portugal*

Researcher   *Sept. 2016 – Apr. 2017*

- Researching data representation and data mining applications on railway transportation systems in the scope of the project PEDDIR: *Weigth in Motion and Wheels Defect Detection*.
- Technologies: `MongoDB`, `Python` and `Web Development` | Project details: *www.peddir.eu* & *www.in2rail.eu*

ShiftForward, S.A.   *Porto, Portugal*

Summer Engineering Intern   *Jul. 2015 – Aug. 2015*

- Development of a Deploy Logger Service, a service for documenting and recording the release of new product versions over time.
- Technologies: `Scala` and `Backbone.js` | Project details: *shiftforward.github.io/malamute/*

Centro Hospitalar do Tâmega e Sousa, E.P.E.   *Penafiel, Porto, Portugal*

IT Department Internship   *Jul. 2014 – Aug. 2014*

- Development of an expedient management system for replacing the existent system based on paper archives.
- Technologies: `MySQL` and `PHP`

Additional Training

2017	**Project Management**, ERASMUS+ Mobility for teaching	*FEUP, Porto, Portugal*
2016	**AWS Technical Essentials Online**, Amazon Web Services – Training and Certification	*Online*
2015	**Practical Workshop in Agile Project Management**, Strongstep - Innovation in Software Quality	*UPTEC, Porto, Portugal*
2015	**CERN Spring Campus**, CERN - European Organization for Nuclear Research	*Lisbon, Portugal*
2014	**M101JS: MongoDB for Node.js Developers**, MongoDB University	*Online*

Skills

Programming	Python ▤ • Node.JS ▤ • C/C++ ▤ • Scala ▤ • Java ▤ • C# ▤ • PHP ▤
Web Technologies	HTML5 ▤ • CSS ▤ • JavaScript ▤ • Laravel(PHP) ▤ • Flask(Python) ▤ • Bootstrap(CSS) ▤ • jQuery(JS) ▤
Databases	MySQL ▤ • PostgreSQL ▤ • InfluxDB ▤ • MongoDB ▤
Others	Arduino ▤ • Git ▤ • Android ▤ • Windows Apps ▤ • Docker ▤
Languages	Portuguese (Mother-tongue) ▤ • English ▤

Recent Publications

2017	***Automating the Extraction of Static Content and Dynamic Behaviour from e-Commerce Websites***, 8th International Conference on Ambient Systems, Networks and Technologies (forthcoming)	*Madeira, Portugal*
2017	***A hands-on approach on botnets for behavior exploration***, 2nd International Conference on Internet of Things, Big Data and Security (forthcoming)	*Porto, Portugal*
2017	***Automating the Extraction of Static Content and Dynamic Behaviour from e-Commerce Websites***, 10th Meeting of Young Researchers of University of Porto	*Porto, Portugal*

Research Activities

2017	***Fostering Citizen Engagement in Smart Cities through Gamification*** **by José Pedro Pinto**, Master Dissertation Co-Supervisor, FEUP	*Porto, Portugal*
2017	**IEEE Intelligent Vehicles Symposium (IV'17),** Reviewer	*California, USA*

Program Committees

2017	**Advisor Board Member,** Talk a Bit – Technology Conference, 5th Edition (2017)	*Porto, Portugal*
2016	**Conference Chair,** Talk a Bit – Technology Conference, 4th Edition (2016)	*Porto, Portugal*
2016	**Web Communication Co-chair,** 2016 IEEE 19th International Conference on Intelligent Transportation Systems (ITSC 2016)	*Rio de Janeiro, Brazil*

Pro Bono Activity

ACADEMIC

IEEE University of Porto Student Branch — *Porto, Portugal*

Executive Committee (Secretary) — *2013 – 2015*

- As a voluntary member I had organized and co-organized some workshops (*C#*, *Photography*, *LaTeX*, *Web Development*) and other events including *IEEE Day*, *IEEEXtreme* and *IEEEmadC*.
- As secretary I was also responsible for mantain the minutes of all meetings and other paperwork.

HUMANITARIAN

Luz da Vida **Youth Group** — *Amarante, Porto, Portugal*

Member — *2009 – 2011*

- Founder and former active member, I had taken part of large number of activities on behalf of the village community.

Honors & Awards

INTERNATIONAL

2017	**847th (of 2815),** Google Hash Code 2017, *hashcode.withgoogle.com*	*Online – Porto, Portugal*
2015	**189th (of 2477),** IEEEXtreme – 24h Programming Competition 9.0, *sites.ieee.org/xtreme*	*Online – Porto, Portugal*
2014	**Honorable Mention,** IEEEmadC – Mobile Application Dev. Contest, *ieeemadc.org*	*Online – Porto, Portugal*
2013	**2nd Place,** European BEST Engineering Competition, *ebec.best.eu.org*	*Warsaw, Poland*

DOMESTIC

2011	**1st Place,** PmatE Mat12 – Math Competition, *pmate.ua.pt*	*University of Aveiro, Portugal*
2009	**2nd Place,** PmatE Fis12 – Physics Competition, *pmate.ua.pt*	*University of Aveiro, Portugal*