Vasco Santos | Software Developer

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Completing my dissertation in Computer and Telematics Engineering, I am a Technology enthusiast, who is always looking forward to learn new technologies. In addition, I consider myself to be an organized, perfectionist, as well as hard working person, with interpersonal skills for working in a team. My ambition is to become a great full-stack developer, capable of using the most adequate technologies for each challenge.

Education

Academic Qualifications

Master's Degree in Computers and Telematics Engineering   **Aveiro University**
○ *Programming, Software Engineering, Distributed Systems, Security,*
Information Retrieval, DevOps, Internet of Things and Computer Networks   *2011–2016*

Languages

First Certificate in English   **Abrantes ILC**
○ *Cambridge English Language Assessment (B2)*   *2010*

Experience

Master's Degree Dissertation   **Aveiro Telecommunications Institute**
○ *Secure Decentralized IoT Infrastructure*   *September 2015–Current*

Aims to showcase an alternative concept for IoT Infrastructures, which can help in designing a fault-tolerant and scalable infrastructure. It is proposed a dynamic and self-configurable infrastructure on top of a structured Peer-to-Peer network, based on a Distributed Hash Table. In addition, a set of communication protocols should be provided for embracing the most varied devices, as well as data access, streaming and persistence. Therefore, it is essential to guarantee the privacy and security of the information.

Technical skills

○ **Areas of Focus:** Security, Distributed Systems, Web Development, Internet of Things and Big Data.

○ **Programming Languages:** Java, Python, Javascript, C# and Bash.

○ **Programming Paradigms:** Object-oriented, Asynchronous, Event-driven and Functional.

○ **Databases:** Relational (SQL Server and PostgreSQL), Document-oriented (MongoDB and RethinkDB), Time-series (InfluxDB) and Key-value (Redis).

○ **Frameworks and Technologies:** NodeJS, AngularJS, React.js, jQuery, Twisted, Django, Flask, CherryPy, WPF, ASP.NET, JavaEE and Apache Solr.

○ **Tools:** Git, Linux, Vagrant, Chef, Ansible, NGINX and Chrome Developer Tools.

Extracurricular Activities

○ **Pedagogy Section**   **Aveiro University**
Nucleo de Estudantes de Engenharia de Computadores e Telemática   *January 2015–December 2015*

Member of the pedagogy section of the students' union. The main objective of this section consists on organizing activities that complement the students' education.

Awards

○ **Member of the Semifinalist Team**   **Lisbon**
OpenMind Esegur Prize for Inovation in the Security Field   *March 2015–June 2015*

Proposed an alert and confirmation service, which adds a second security factor to the authentication in existing external services, with single factor authentication.
Team advised by Professor André Zuquete.