Vasco Santos | Software Engineer

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A technology enthusiast driven by the daily challenges inherent to software engineer. Organized, perfectionist and hard working person who is always looking forward to discuss, help and learn during the work process.

Experience

P2P Software Engineer   **MOXY**
Decentralized Web, Open Source   *March 2018–Now*

Member of the Javascript core dev team responsible for creating protocols for a completely decentralized web. Mainly working in IPFS and Libp2p, two open source projects from Protocol Labs. During this period, took ownership and the role of lead maintainer in dozens of modules. In addition, took the lead for implementing several features, modules and smaller projects, namely the IPNS and the Service Worker Gateway for IPFS.

Software Engineer   **MOXY**
Web development, E-commerce   *January 2017–February 2018*

In a development team that creates e-commerce web applications for globally known luxury fashion retailers. Web applications involving millions of monthly visitors and transactions, as well as focus on a polished experience to the users. During this period, also lectured three workshops for students in different universities.

Full-stack Developer and Researcher   **Altice Labs and Telecommunications Institute**
ETAPAS Project   *July 2016–December 2016*

This work consisted on the enhancement of the SmartData Platform, which is an IoT/M2M platform that aggregates data from multiple heterogeneous sources. New features were implemented regarding data formats, web services, data privacy and graphical user interface. This platform was part of three European projects.

Master's Degree Dissertation Work   **Telecommunications Institute**
Secure Decentralized IoT Infrastructure   *September 2015–December 2016*

Created an alternative concept for IoT Infrastructures, which focuses on a decentralized architecture (using a DHT) featuring multiple roles and ensuring the privacy and security of the information.

Technical skills

- **Areas of Focus:** Decentralized Web, Security, Distributed Systems and Web Development.
- **Programming Languages:** JavaScript, Python, Java and Go (Introductory).
- **Programming Paradigms:** Object-oriented, Asynchronous, Event-driven and Functional.
- **Frameworks and Technologies:** Node.js, React.js, Redux, Python Twisted, Django, Flask, Java Spring.
- **Tools:** Git, Unix, Docker, Vagrant and NGINX.

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*

Publications

Secure Decentralized IoT Infrastructure   **Wireless days**
Conference co-sponsored by IEEE Communications Society and IFIP   *2017*

The proposed and implemented solution contributes to the evolution of the IoT infrastructures, since it provides a new vision for scaling, as well as securing this type of platforms. This work was presented in the Wireless Days 2017 conference.

Awards

Member of a 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 a single factor authentication. This service provides anonymity to the users, as well as configurable levels of security for each external service bound.

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