João C. P. Santos

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- My Portfolio
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Skills

Creative, resilient, focused, curious and responsible but also fun, friendly and open-minded. Eager to learn and to share.

Environments

Operating systems: Linux (Ubuntu, Lubuntu, ElementaryOS, Mint, Kali), Windows10.
IDE: Eclipse, Netbeans, Pycharm and Visual Studio.
Text Editor: Atom and Notepad++.
Version Control: Github and Bitbucket.
General: Microsoft Office (Excel, Word, PowerPoint).
Typesetting systems: TeXstudio and Overleaf (LaTeX).

Languages

Portuguese - Native
English - Fluent
Spanish - Intermediate

Main 💻 Languages

Python

Java

Education

2013 - 2015
2017 - 2019 Bachelor Degree in Informatics Engineering - University of Aveiro
Department of Electronics, Telecommunications and Informatics
My first year at university had ups and downs, I wasn't sure if it was really IT i wanted and that made my interest diverge. In the following years, after some self-discovery I realized it was the right area for me. My interest was immediately captivated by object oriented programming and security fields. This years of college were very gratifying in a sense that I learned to plan and organize my time in a very precise and methodical way. This really gave me a sense of responsibility, got me used to the workflow and made me a very disciplined worker. Finally, my final graduation project allowed me to be involved in other interest areas for me like computer vision and nature.

Projects

2019 MoST - Image and video processing with application to environmental sciences
The main aim of this project is to extract data on the spread of outbreaks of forest fires in order to calculate the emission of gases to the atmosphere and its burned area. This way, several images and videos were collected using a drone that flew over a burning land. Posteriorly our system is able to segment the burned regions by defining the areas of interest and non interest in order to create polygons that match to temporally burned regions. After obtaining these values, operations are performed on these images in order to match those same polygons to georeferenced regions and thus obtain a real burned area and its propagation. *SourceCode*.

Work Experience

2015 - 2016 MediaMarkt Portugal - Informatics Team   Aveiro
In charge of sales, organization and orders of IT products (Laptops, Desktops, Tablets, Network devices, Printers and other computer peripherals) for individuals and companies. Software and hardware upgrades like disk backups, HDD/SSD/RAM installations, OS's, disk partitions and full computer recoveries. Completely client-oriented job which has provided a significant increase in company/customer interaction skills.

Technical Skills

</> Experienced and passioned with Python, Java and the object oriented programming technique.

  Intermediate knowledge of HTML5, CSS3 and javascipt.

  Medium-experienced with jquery and bootstrap front-end frameworks.

  SQL databases like Mysql. DBMS, SQL DDL, SQL DML, stored procedures, triggers and security mechanisms.

  Experience with logical models and physical data models for systems based on $NoSQL$ paradigms like MongoDB, redis, cassandra and Neo4J.

  Knowledge about security vulnerabilities, vulnerabilities exploitation and the current practical solutions, at different levels and with different goal, to enforce security attributes. (Sql injection, XSS, RFI/RCE/LFI, Ciphers, Auth , ...)

  Software testing experience, including methods and tools like Agile dev, code review, static code analysis, CI/CD, JIRA/Pivotal tracker, Jenkins, Junit, Mockito, Docker, and Selenium.

  Academic contact with concepts/technologies like openCV, QGIS, Nmap, SqlMap, Nikto, Metasploit, reactive/deliberative agents and distributed systems.