

JOÃO AMARAL SANTOS

PERSONAL INFORMATION

PLACE: Guarda, Portugal
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EDUCATION

SEP 2017 - CURRENT	Master of Science in COMPUTER SCIENCE AND ENGINEERING <i>University of Beira Interior, Covilhã</i> Researcher at ReGain group. Overall average: 15/20 (First semester).
SEP 2014 - JUN 2017	Bachelor of Science in COMPUTER SCIENCE AND ENGINEERING <i>University of Beira Interior, Covilhã</i> Project: “TankUP” — Advisor: Prof. Frutuoso GOMES Member of the ReGain group. Overall average: 14/20.

EXPERIENCE

JUN - SEP 2017	Grupo Visabeira - Viseu, Portugal <i>Software Systems Engineering Intern</i> Summer internship as a Software Systems Engineer, working on various software development projects such as PushAPP, application to message and manage locations for work fleets, CRM integrations and also front and back-end web development.
APR - JUN 2017	ROFF - Covilhã, Portugal <i>SAP Trainee</i> Overall Study of the SAP framework and constitution and training in SAP fundamentals, such as ABAP form making, SAP Script, Smartforms and ALV Trees.

TECHNICAL STRENGTHS

Computer Languages	C/C++, Java, Python, SQL, JavaScript
Markup Languages	HTML, CSS, L ^A T _E X, Markdown
Human Languages	Portuguese, English, Spanish
Frameworks	Apache Hadoop, Apache Spark, Java Enterprise, OutSystems
Operating Systems	Microsoft Windows 10, Various Debian or Arch based GNU/Linux systems
Databases	MySQL, PostgreSQL, Microsoft SQL
Tools	Git, Vim, Blender, Unity

PROJECTS

SSOM

April 2018 - Jun 2018

<https://github.com/orangelash/ssom>

Stereo SOM, an application of a modified self-organizing neural network in the estimation of stereo disparity as to provide depth maps to a picture.

Free Coin

April 2018 - Jun 2018

<https://github.com/orangelash/freecoin>

Free Coin, a centralized cryptographic currency based on BitCoin, where a server controls transactions and creation of coins based on hashing challenges, that change in difficulty based on the time current challenges are solved. It features completely secure communication with Transport Layer Security and Elliptic Curve Digital Signature Algorithm (ECDSA) for the generation of X509 certificates for miners. Also features Mutual Authentication, Two-factor Authentication and completely anonymous communications between server and clients.

NWP

Sep 2017 - Dec 2017

<https://github.com/orangelash/nwp>

New Way of Publicity, a beacon based news distribution web application and mobile application that can be used in commercial centers to broadcast location-based news to clients.

Pocket Engineer

May 2017 - Aug 2017

<https://github.com/zsantos/Android/tree/master/Ilmanaque>

Pocket Engineer is a recent project that aims to provide a simple way to calculate what kind of isolation a house, in a certain area of Portugal, needs. The app focuses on the usage of nature-friendly resources like cork and can calculate isolation for various parts of a house, conforming to the new Portuguese Green House Law and using data from various atmospheric studies.

TankUP

Feb 2017 - July 2017

<https://github.com/zorangelash/tankup>

TankUP is a Android Multi-player Online Game, developed in Unity and C#, with 3D assets developed in Blender. The game works using a client-server architecture and TCP sockets. TankUP was my final project in my bachelor.

RANDrop

Sep 2016 - Dec 2016

<https://github.com/zsantos/Security>

RANDrop is a Java folder monitoring tool that encrypts every file placed into it with AES-128 or 256 encryption method, using salt and random bytes from /dev/random to generate a password.

FIXE Compiler

Sep 2016 - Dec 2016

<https://github.com/zsantos/Compiler>

Compiler of programming language FIXE , created by my teacher for this purpose, developed in OCaml and Menhir.

Ilmanaque

Sep 2016 - Dec 2016

<https://github.com/zsantos/Android/tree/master/Ilmanaque>

Ilmanaque is an android app which allows farmers to keep track of their plantation camps / crops, includes Borda d'Água's information about the different types of crops and other relevant information to farmers, also provides the weather based on GPS location.

VOLUNTEER WORK

Ignite Your Future 2017

Apr 2016

Worked as a mentor for a team of five college students at Ignite Your Future 2017, an event for young students interested in technologies and the sciences.

CERTIFICATIONS

Academy ASAP SDP

Jun 2017

ROFF

License LIS-90/2017

NDG Linux Essentials

Dec 2017

Linux Professional Institute

Linux Essentials Course at the Cisco Academy.