

Ana Santos

SOFTWARE ENGINEER · MSC IN INFORMATICS AND COMPUTING ENGINEERING

Matosinhos, Portugal

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Work Experience

CEiiA - Center of Engineering and Product Development

Matosinhos, Portugal

SOFTWARE ENGINEER

Aug. 2020 - PRESENT

- Currently developing an electron application for command and control of an autonomous surface vehicle in Vuejs and Openlayers;
- Built multiple Microservices and Software Components such as Rest API's using NET Core;
- Experience with several tools and solutions such as Grafana, Prometheus, Keycloak and Tye.
- Solid experience with Git and Docker;

LSTS - Underwater Systems and Technology Laboratory

Porto, Portugal

UNDERGRADUATE RESEARCH FELLOW

Mar. 2019 - PRESENT

- Dissertation: Visualization of marine data applied to the planning and supervision of autonomous vehicles (React and CesiumJS);
- Log indexer to store metadata of the logs collected during the missions. This implied developing a database as well as a HTTP server to answer to information requests from the browser or LSTS's Neptus software (C++, SQL, Python and Java);
- Modified GSM driver to request SIM card balance in the autonomous vehicles (C++);
- Parse Imagenex YellowFin sidescan .872 data (C++);

University of Porto - Universidade junior

Porto, Portugal

MONITOR: 3D MODELING OF OBJECTS IN SKETCHUP

Jul. 2017 & Jul. 2018

Education

Faculty of Engineering, University of Porto - FEUP

Porto, Portugal

M.S. IN INFORMATICS AND COMPUTING ENGINEERING (15/20)

Sep. 2018 - Jul. 2020

Dissertation: Visualization of marine data applied to the planning and supervision of autonomous vehicles (18/20)

Projects

Chip8 Emulator

C++

EMULATOR FOR THE CHIP-8 INTERPRETED LANGUAGE

Sep. 2021 - Present

Buy eat

Kotlin

MOBILE APP OF RECIPES AND SHOPPING LIST.

Fev. 2021 - Mar. 2021

Skills

Programming	Typescript / Javascript, C++, C#, Java, Python
Web	HTML, CSS, Electron, Node.js, Vue.js, OpenLayers, CesiumJS
Databases	MongoDB, PostgreSQL, Microsoft SQL Server
Software development	Linux, Agile:Scrum & Kanban
Tools	Git, Docker, Jira, Gitlab
Languages	Portuguese, English

Scientific Activities

Recognize Environmental Picture (REP)

Sesimbra, Portugal

SOFTWARE DEVELOPER AND LAUV OPERATOR

Sep. 2018

Annual exercise organized by USTL/LSTS, the Portuguese Navy and other entities. Its focus is on demonstration and testing of networks of heterogeneous autonomous vehicles.