

Luís André Oliveira

Tocha - Coimbra, Portugal

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Education

University of Aveiro

MSc in Informatics Engineering

Aveiro, PT

Sept 2019 - 2021

University of Aveiro

BTech in Informatics Engineering

Aveiro, PT

Sept 2016 - 2020

Work Experience

Critical Software

Software Engineer

Coimbra, PT

November 2021 - Current

- Development of infotainment applications to cars.
- Typescript-based applications, developed using NodeJS, with interaction with several signals received from the car and communication with backends via REST APIs.
- Development of unit tests using JestJS and behavior verification using integration tests written with Gherkin.
- Start a new project from the beginning where I was an active part of finding requirements and designing the architecture of the app.
- Work in a Scrum team.
- **Technical Skills:** Typescript, NodeJS, behavior-driven development using Cucumber. CI/CD using Jenkins and Github actions.

University Projects

Air quality monitoring platform

University of Aveiro - Master thesis

Aveiro, PT

November 2020 - November 2021

- Aggregation of data collected by several air pollutant sensors with different data models in one common data model.
- Development of a web and mobile application to show the data collected with several ways to analyze the data (dashboards, raw data). The web application was developed using Django and the mobile application using Flutter
- Provide dashboards via Grafana to monitor the concentrations of the air pollutants.
- All system components were working on docker containers.
- Project developed in collaboration with the Environment Institute of the University of Aveiro.
- **Technical Skills:** Python with Django, HTML, CSS, JavaScript, PostgreSQL, Docker, Flutter, Grafana.

Visualization tool for life logging

University of Aveiro - Bachelor final project

Aveiro, PT

February 2019 - June 2019

- System to improve the lifestyle based on statistics about daily activities identified by photo analysis of photos taken periodically by the smart-phone.
- Development of categorization algorithm to extract information from the photos collected. This algorithm was developed by using the Google and Microsoft API to extract information from pictures.
- Development of a web application to present the statistics of the activities and a mobile application to collect the photos.
- **Technical Skills:** Python with Django, HTML, CSS, JavaScript, and Java to develop the mobile app.

Skills

Programming Typescript/Javascript (NodeJS, Angular, JestJS), Python, Java, HTML/CSS, SQL.

Miscellaneous Linux, Git, Jenkins, Docker, Gherkin

Languages

English Professional proficiency

Portuguese Native proficiency