

ANDRÉ CAVALHEIRO

Computer scientist

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EXPERIENCE

Researcher

INESC-ID

Apr 2020 – Ongoing Lisbon

- Researching machine learning techniques applied to predicting the spatial spread of COVID-19 in Portuguese territory.
- For 6 months our predictions were used by Portuguese Directorate-General for Health (DGS) in order to provide information for improved policy making.
- This project's report has been submitted for publication.

Web Developer

Serviços Informática - Técnico Lisboa

Oct 2017 – Jan 2019 Lisbon

- Back-end development (PHP, NodeJs)
- Front-end development (mostly VueJs)
- Server administration and maintenance
- Database administration and maintenance (MySQL, MongoDB)
- Unit and E2E testing (Jest, JUnit, Selenium)

Volunteer

Web Summit

2 weeks each Lisbon

Web Summit is the biggest tech convention in Europe. I was a volunteer in its two first editions in Lisbon (2016, 2017). My duties included welcoming and registering both speakers and regular participants who attended the event and providing them with any information they required. For my services, I was given a chance to attend the entire event.

PROJECTS

Tsinghua-Santander World Challenges

4 months in 2018

I was part of a group made out of five Portuguese students who got to the final worldwide competition. We had the opportunity to prototype and present the project at Tsinghua University in Beijing, China, the countries' most prestigious university. This led the way to my exchange program at the very same university in the following year. Our group developed theoretical frameworks to create a new kind of modular electrical vehicle to face current car industry problems.

ArmHack

EDUCATION

Machine Learning Course

Lisbon Machine Learning School (LxMLS)

Aug 2020

M.Sc. Exchange Program

Tsinghua University, Beijing, China

Feb 2019 – Jun 2019

DataScience Course

Lisbon DataScience Academy

Feb 2018 – Aug 2018

M.Sc. in Computer Science, Intelligent Systems

Tecnico Lisboa

Sept 2018 – Dec 2020

Thesis: The Digital Me, using Knowledge Graphs for personal data.

B.Sc. in Eletrotechnical Engineering

Tecnico Lisboa

Sept 2015 – Jun 2018

STRENGTHS

Complex Networks

Datascience

Deep Learning

Statistical Analysis

Pytorch

Scikit-learn

Neo4j

Pandas

Numpy

NodeJs

NetworkX

Graph-Tool

Knowledge Management

Roam Research

Social person

Adventurous spirit

LANGUAGES

English



Portuguese



📅 6 months in 2018

I developed a prototype exoskeleton arm with a team of 4 engineering students for six months in a project funded by the Identity. The project required Arduino programming, 3D designing and printing, materials study and craftsmanship, and investigation in robotics. The arm ended up being fully operational.

HackerSchool

📅 3 years from 2016 to 2018

I endorsed a university student group that develops several projects with various themes such as programming, electronics, 3D printing, and event organization. I took the role of development coordinator in the administrative board during the last year.

Interrail

📅 1 month in 2016

Travelled over 14 european cities in only 32 days with a group of four other friends.

Chinese



Spanish



French



REFEREES

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