ANDRÉ CAVALHEIRO

Computer scientist

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EXPERIENCE

Engineering Founder - Data Scientist
Rely.io

📅 Mar 2021 – Jan 2023   📍 Lisbon

- As an engineering founder at Rely.io, I joined the company during its pre-seed round and have since been responsible for a wide range of functions, including data analytics, machine learning designs and implementation, architecture and data model solutions design, metric and time-series management, and SRE.
- I have also contributed to data engineering, backend development, product features, and content marketing.
- At Rely.io I helped to create a reliability intelligence platform that helps cloud-native companies optimize software reliability without sacrificing feature velocity. We've raised a $2M seed round. Our platform transforms monitoring data into actionable information.

Customer Reliability Engineer
Rely.io

📅 Jan 2023 – Ongoing   📍 Lisbon

- As the company grew I changed positions to focus more on Reliability Expertise and Reliability Solutions Design.
- Main SRE and Reliability Expert both internally and customer Facing.
- Strong ties to the Product team.

Junior Researcher
INESC-ID

📅 Apr 2020 – Jun 2021   📍 Lisbon

- As a Junior Researcher, I had the opportunity to work on a project modeling the geospatial evolution of the COVID-19 pandemic in Portugal. Our research paper, published in "ACM: Transactions on Spatial Algorithms and Systems Special Issue on Understanding the Spread of COVID-19," outlines the methodology we used to compute an estimate of the incidence rate in each location of mainland Portugal. https://dl.acm.org/doi/full/10.1145/3550272
- This work was used by the Portuguese Directorate-General for Health (DGS) to make decisions concerning the pandemic, and all data, code, and results are publicly available for future research.

Freelancer Backend Engineer
Indexed Finance

📅 Jan 2021 – Apr 2021   📍 Lisbon

- As a Freelancer, I had the opportunity to work on an exciting project for Indexed Finance, building an open-source decentralized platform for NDX holders to vote and create proposals. We were a team of two and I was responsible for the backend and web3 related tasks. This project was a Gitcoin bounty,

EDUCATION

M.Sc. in Computer Science - Information Systems and Machine Learning
Tecnico Lisboa

📅 Sept 2018 – Jul 2021

The Digital Me: Using Knowledge Graphs to model Digital Footprints

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B.Sc. in Eletrotecnical Engineering
Tecnico Lisboa

📅 Sept 2015 – Jun 2018

M.Sc. Exchange Program
Tsinghua University, Beijing, China

📅 Feb 2019 – Jun 2019

Machine Learning Course
Lisbon Machine Learning School (LxMLS)

📅 Aug 2020

DataScience Course
Lisbon DataScience Academy

📅 Feb 2018 – Aug 2018

STRENGTHS

`Datascience` `Complex Networks`
`Deep Learning` `Machine Learning`
`Time Series Analysis` `Backend Development`

`Python` `Pandas` `Numpy` `Scikit-learn`
`Pytorch` `SQL (Posgresql)` `TimescaleDB`
`AWS` `Google Cloud` `Prometheus`
`New Relic`
`Segment Analytics` `Amplitude Analytics`
`Neo4j` `NodeJs` `NetworkX`

and the code is open-source for anyone to use or contribute to:
https://github.com/gemasphi/ndx-polling-app

- We created a polling web app where users can create and vote on polls, with results being weighted by a user's NDX wallet balance. The platform is fully decentralized, both in terms of deployment and database wise.

Web Developer

Serviços Informática - Tecnico Lisboa

📅 Oct 2017 – Jan 2019   📍 Lisbon

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

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

📅 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 administrate board during the last year.

Interrail

📅 1 month in 2016

Travelled over 14 european citys in a month with a group of four friends.

Knowledge Managment   Roam Research

Social person   Adventurous spirit

LANGUAGES

English   ●●●●●

Portuguese   ●●●●●

French   ●○○○○

Chinese   ●○○○○

REFEREES

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