



# André Carvalho

Machine Learning Eng.  
Full-Stack & DevOps

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## Social Network

- Portfolio & Personal Projects
- Github Profile
- Twitter Profile

## Languages

- Portuguese
- English
- Spanish
- French

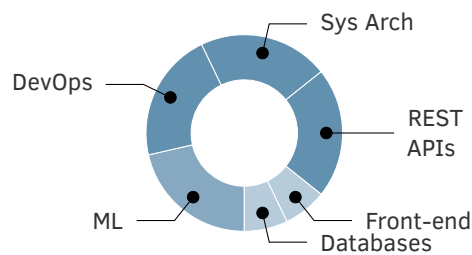
## Hard Skills

- Strategic Planning
- Motivation
- Ability to Clarify and Paraphrase
- Stress Tolerance

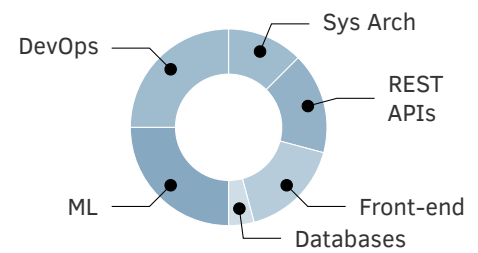
## Soft Skills

- Problem-solving
- Self-awareness
- Cooperation
- Flexibility

## What I am looking for?



## My Skillset



## Working Experience

- 2019 – **Machine Learning Engineer Full-Stack & DevOps** ISQ  
currently
- DevOps (1.5 Year experience) - responsible on 4 projects (+ 3 own projects)  
Implementation of Docker-files and sequestration of services, volumes, back-ups and versioning;  
Compose CircleCI YAML for CI/CD + 3 environments (development, test and production);  
Test-driven development;  
GitHub project page maintenance + help colleagues to learn how to use it.  
*Docker, CircleCI, GitHub, pytest, flake8, AWS*
  - System Architect (1 Year experience) - responsible on 3 projects  
Design use case, flowcharts and class diagrams, participate on strategic implementation decisions. Pass on knowledge about the solution design to colleagues, and decide next steps to do.  
*Github, Teams, jira, omnigraffle, draw.io*
  - Machine learning (2 +6 Year experience)  
Deep Learning (keras, tensorflow) and optimization methods;  
Solid knowledge about cross-validation, evaluation metrics interpretation.  
Pipeline development + integration with APIs and Web-Platforms;  
*Python, Keras, Tensorflow, scikit learn, numpy, pandas*
  - REST APIs (2 Year experience) - 4 projects  
Design and integration of functionalities (mostly ML REST services)  
Generate endpoints to provide data to angular applications  
Integrate HTTPS certificates to REST services;  
*Angular, Python, Flask, Waitress, Tornado*
  - Front-end (1 Year experience) - 3 projects  
Development of web platforms to leverage existing ML solutions;  
Integration of REST APIs;  
Automate production builds;  
*Angular, Materials, Bootstrap, REST APIs*

- 2017 – 2018 **Professor - Foundations of Programming** IST  
Object-oriented programming, recursive algorithms, Lists, Hash Tables, Map-Reduce
- 2016 – 2017 **Professor - Algorithms and Data Structures** IST  
Sorting algorithms: selection sort, bubble sort, quick sort, merge sort. Binary trees. Balanced binary trees. Hash tables and Double hashing.

## Education

- 2015 – 2019 PhD Information system and Computer Engineering Instituto Superior Técnico (IST)
- 2012 – 2014 MSc Telecommunications and Informatics Engineering Instituto Superior Técnico (IST)
- 2009 – 2012 BSc Computer Networks and Multimedia Engineering Inst. Sup. de Engenharia de Lisboa (ISEL)