



André Carvalho

Machine Learning Eng.
Full-Stack & DevOps

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Social Network

- Portfolio & Personal Projects
- Github Profile

Languages

- Portuguese
- English
- Spanish
- French

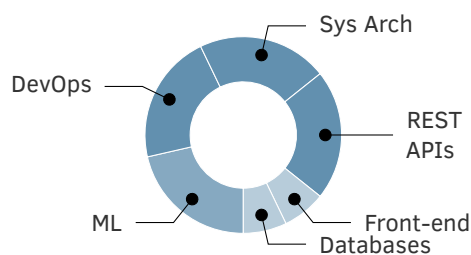
Hard Skills

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

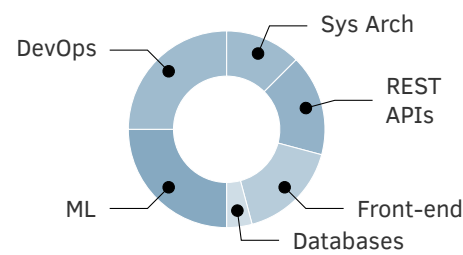
Soft Skills

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

What am I looking for?



My Skillset



Working Experience

- 2019 – **Machine Learning Engineer Full-Stack & DevOps** ISQ
currently
- DevOps (2 Years experience) - responsible on 4 projects (+ 3 own projects)
Implementation of Dockerfiles and orchestration of services, volumes, back-ups and versioning;
Compose CircleCI YAML for CI/CD w/ 3 environments (development, test and production);
Test-driven development;
GitHub project page maintenance + help colleagues learning how to use it.
Docker, CircleCI, GitHub, pytest, flake8, AWS
 - System Architect (5 Years 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 (7 Years experience)
Deep Learning (keras, tensorflow) and optimization methods;
Solid knowledge about cross-validation and evaluation metrics interpretation.
Pipeline development + integration with APIs and Web-Platforms;
Python, Keras, Tensorflow, scikit learn, numpy, pandas
 - REST APIs (2 Years 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 (1.5 Years 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 **Lab Teacher - Foundations of Programming** IST
Object-oriented programming, recursive algorithms, Lists, Hash Tables, Map-Reduce
- 2016 – 2017 **Lab Teacher - 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)