André Carvalho

Machine Learning Eng. Full-Stack & DevOps

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Social Network

- Portfolio & Personal Projects
- Github Profile
- Twitter Profile

Languages

- 🇵🇹 Portuguese ●●●●●
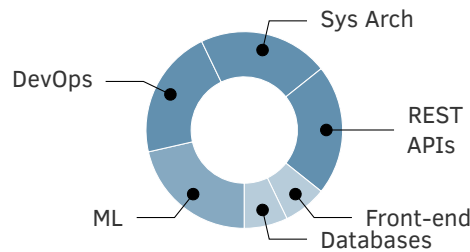- 🇬🇧 English ●●●●●
- 🇪🇸 Spanish ●●●○○
- 🇫🇷 French ●●●○○

Hard Skills

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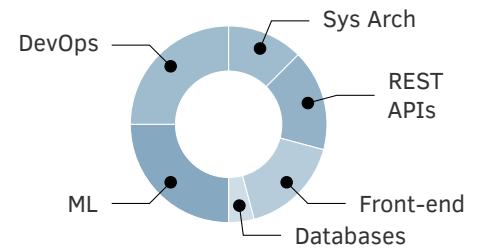- Ability to Clarify and Paraphrase
- Stress Tolerance

Soft Skills

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

What am I looking for?

My Skillset

Working Experience

2019 – currently   **Machine Learning Engineer Full-Stack & DevOps**   ISQ

- DevOps (1.5 Year 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 (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 and 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)