

João Diogo Fernandes Louro

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Recent MSc graduate in Aerospace Engineering with relevant programming experience. Strong interpersonal and leadership skills, and excited about starting a meaningful career in the technology industry.

EDUCATION

- **University of Lisbon - Instituto Superior Técnico** Lisbon, Portugal
Integrated Master's Degree in Aerospace Engineering; 16/20 (top 30%) Sep 2013 – Dec 2018
 - Graduated with a Major in Avionics/Electronics and a Minor in Control&Systems;
 - IST was ranked #11 Engineering University in Europe and #1 in Portugal in the USNews 2018 University Ranking;
 - Aerospace Engineering at IST was the university course with the highest access grade in Portugal in the last two years.
- **Universitat Politècnica de Catalunya - BarcelonaTech** Barcelona, Spain
Master's Degree in Aerospace Engineering; 8.25/10 Sep 2016 – Feb 2017
 - BarcelonaTech was ranked #12 Engineering University in Europe and #1 in Spain in the USNews 2018 University Ranking

WORK EXPERIENCE

- **GMV, Embraer** Lisbon, Portugal
Master's Thesis Intern Feb 2018 - Nov 2018
 - Developed a C++ application for end-to-end delay analysis of AFDX (Avionics Full-Duplex Switched Ethernet) networks, the new standard in commercial aviation data buses;
 - Work developed in contact with and under specifications of Embraer;
 - Detected inconsistencies in relevant research on worst-case end-to-end latencies in avionics networks.
- **Data Science for Social Good Europe** Lisbon, Portugal
Researcher Sep 2017 - Sep 2018
 - Developed a machine learning-based Python application to pinpoint unlicensed swimming pools using RGB high-definition satellite imagery for the Municipality of Cascais, Portugal.

LEADERSHIP AND VOLUNTEERING EXPERIENCE

- **University of Chicago Data Science for Social Good Fellowship** Lisbon, Portugal
Fellow, Team Leader Jun 2017 - Sep 2017
 - Led a team throughout the development and delivery of a machine learning-based Python tool to classify the use of Rotterdam's rooftops using aerial imagery and the Netherlands' building database;
 - Maintained a close relationship with the Municipality of Rotterdam, with weekly remote meetings;
 - Awarded with a travel grant to present the work at the 2017 DSSG Conference, in Chicago, USA.
- **Aerotéc – Aerospace Engineering Students' Board** Lisbon, Portugal
Senior Member Sep 2014 - Feb 2018
 - Organized and taught several paid technical courses, each with 30+ attendants;
 - Coordinated visits to high schools, which included workshops and some vocational advice;
 - Part of the team that competed in the 2017 Air Cargo Challenge, a European competition aimed at aerospace engineering students. Achieved 15th place out of 28, with relatively low funding and support;
 - Led the organization of "Aerospace Weeks", week-long events joining prominent players in the Portuguese and European aerospace industry and undergraduates.
- **Leigos Missionários da Consolata** Empada, Guinea-Bissau
International Volunteer, Informatics Teacher Jul 2014 - Sep 2014
 - Taught classes to young adults and provided aid in a humanitarian mission's various actions;
 - Organized fund raiser campaigns and events, such as a live music dinner with 100+ attendants;
 - Gained extensive public speaking experience while raising funds in churches and various events;
 - Trip featured in the September 2014 edition of the Fátima Missionária magazine.

ADDITIONAL INFORMATION

- **Technical Skills:** Experienced in C++, Python (Pandas, SciKit-Learn, fastai), Matlab/Octave, C, Solidworks, Excel, shell scripting. Some knowledge of Tableau, Amazon Web Services, Microsoft Azure, SQL, HTML
- **Languages:** Portuguese (native), English (highly fluent), Spanish (conversational), French (conversational).
- **Honors:** Highest university access grade in the Mação municipality of the 2012/13 academic year, near-perfect score on the Portuguese standardized maths exam (196/200).
- **Certificates:** Bloomberg Market Concepts
- **Interests:** History, Fitness, Winemaking, Free and Open Source Software.