



FRANCISCO RABAÇA MOLLER FREIRIA

MSc in Electrical and Computers Engineering

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OBJECTIVES & ABOUT ME

I describe myself as honest, creative and professional. Able to analyse each situation pragmatically and essentially with a critical spirit guided by an identity based on moral and ethical values of equality, evolution and empathy for human nature. I seek a job opportunity that aligns with my mission, fostering the growth of technical and interpersonal skills while contributing to meaningful progress.

WORK EXPERIENCE

CHILDREN'S TUTOR at ASSOCIAÇÃO TEMPOS BRILHANTES, Guarda – Portugal

Oct. 2023- Jul. 2024

- Nutriser & Educ'art:** Led educational projects focused on developing children's creativity, autonomy, and well-being. Headed artistic and dramatic expression activities sparking into a deeper curiosity about the world, critical thinking, and physical well-being.
- Developed strong managerial skills, focusing on emotional management, empathy, and people management. Learned to apply different strategies for promoting individual satisfaction and the common good, enhancing my sense of responsibility and leadership.

QA ANALYST at ALTRAN, Fundão - Portugal

Apr. 2019 – Aug. 2019

- Automation and Integration Tests Designer:** Conducted functional analysis to structure and design test plans for each sprint. Planned the test case keywords development considering the anticipation of future problems and preventing redundant work. Managed technical task distribution across team. Achieved a 14% increase in approval rate compared to previous phase and contributed to a 100% client approval rate over six sprints (15-day sprint).
- Automation Tests Developer:** Developed test keywords and executed automated tests ensuring successful deliveries. Performed ongoing maintenance and resolved identified errors to maintain system quality.

EDUCATION

Instituto Superior Técnico – LISBOA, Lisbon – Portugal

Sep. 2019 – May. 2023

MSc in Electrical and Computers Engineering, Major in Telecommunications and Computer Science

- Thesis in kidney segmentation in MRI using deep learning:** Conducted an ablation study on the Attention U-NET mechanism, demonstrating a 2% lower standard deviation in validation results compared to U-NET, enhancing reliability. Introduced a novel coarse-to-fine approach with an edge class to improve border segmentation. Achieved a 0.966 dice coefficient by optimizing neural network design, pre-processing techniques, and optimization strategies.

Cracow University of Technology, Krakow – Poland

Sep. 2017 – Feb. 2018

Exchange Semester

University of Beira Interior, Covilhã - Portugal

Sep. 2015 – Feb. 2019

BSc in Electrical and Computers Engineering

CERTIFICATIONS

CS50's Introduction to Artificial Intelligence with Python, HarvardX - edX

Oct. 2024- Nov. 2024

- Deepen fundamental knowledge, stay up to date on new approaches and feed my curiosity about innovative solutions. Developed hands-on experience building AI-driven applications using Python libraries and frameworks.
- Topics:** Search, Knowledge, Uncertainty, Optimization, Learning, Neural Networks and Language.

SKILLS

- Languages:** Portuguese (C2), English (C1), Spanish (B2) and German (A1).
- Machine Learning:** Keras, Tensorflow, Numpy, Pytorch, OpenCV and albumentations.
- Data Analysis:** Scikit-Learn, matplotlib, Excel and MongoDB.
- Programming:** Python, C, C++, Assembly, Matlab and SQL.
- IT:** Git version control, Jira, RobotFramework (certification), jMeter (certification), SeleniumLibrary and Postman.
- Soft Skills:** Teamwork, Adaptability, Critical Thinking, Conflict Resolution, Emotional Intelligence, Work Ethics and Problem Solving.

ACTIVITIES AND INTERESTS

- Cello in Music Conservatory:** Performing 20+ solo concerts and been part of string and symphony orchestras in 45+ concerts over six years. Developed strong sensitivity and attention to detail by persistence practice.
- Volunteering:** In *Just a change* we rebuilt a house (15-day), changing it from housing poverty conditions into a home-sweet-home space.
- Free time:** Reading, writing, exercising, and connecting with nature to continually striving for a better version of myself.