Afonso Manuel Barral Caniço
Computer Engineer, Invited Teaching Assistant

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🎓 Education

Master's of Science (MSc) in Computer Engineering,   2022 – present
Iscte - University Institute of Lisbon ↗   Lisbon, Portugal
- Additional coursework in Programming Language Engineering

Bachelor's of Science (BSc) in Computer Science and Engineering,   2019 – 2022
Iscte - University Institute of Lisbon ↗   Lisbon, Portugal
- Grade: 18 / 20
- Awards: ISTA Top Talent - Academic Merit and Excellence Award
  - 2019/2020
  - 2020/2021
  - 2021/2022

💼 Professional Experience

Invited Teaching Assistant, Iscte - University Institute of Lisbon ↗   09/2022 – present
Instructed bachelor's students in the courses of Theory of Computation and Algorithms &   Lisbon, Portugal
Data Structures. Developed a new framework and the required tools for the grading of
students' programming assignments in the latter course.

Professional Trainer, Instituto de Emprego e Formação Profissional (IEFP) ↗   11/2023
Instructed trainees during part of "UpSkill - Digital Skills and Jobs", a professional   Lisbon, Portugal
qualification and employment programme by IEFP in partnership with Iscte-IUL.

📚 Certificates

Introduction to Complex Analysis, Wesleyan University, through Coursera ↗   07/2020 – 09/2020

🖥 Skills

Object-Oriented and Functional Programming
Java, C#, Kotlin, Python, Scala

Quality Assurance and Software Testing
Beta testing, Test-driven Development, Software evaluation

Development Environments
IntelliJ IDEA, Visual Studio IDE, Visual Studio Code, Pycharm

Academic Document Preparation
LaTeX

Web Development
HTML, CSS

Database Management
Relational databases (SQL)

📖 Publications

Witter: A Library for White-Box Testing of Introductory Programming Algorithms,   19/10/2023
Association for Computing Machinery (ACM) ↗
This paper describes the need for, development, and demonstration of the practical
feasibility of a white-box software testing and feedback generation library for
introductory programming assignments. I presented this paper at the ACM SIGPLAN
International Symposium on SPLASH-E.