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.

📚 Certificates

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

▶ Skills

Object-Oriented Programming
Java, C#, Kotlin, Python

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

Database Management
Relational databases (SQL)

Functional Programming
Python, Kotlin, Scala

Academic Document Preparation
LaTeX, Overleaf

Development Frameworks
Version control for collaborative
work, e.g. Git; Agile development
frameworks, e.g. SCRUM

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

Web Development
HTML, CSS

📖 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 solution for
introductory programming students. Future work regarding user testing is outlined.