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
Lisbon, Portugal
Instructed bachelor's students in the courses of Theory of Computation and Algorithms & 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
Lisbon, Portugal
Instructed trainees during part of "UpSkill - Digital Skills and Jobs", a professional 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

Academic Document Preparation
LaTeX

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

Web Development
HTML, CSS

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

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.