# **Afonso Manuel Barral Caniço**

# Software Engineer, Teaching Assistant

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2022 - 2024

2019 - 2022

Lisbon, Portugal

Lisbon, Portugal

## **Education**

#### Master's of Science (MSc) in Computer Engineering,

Iscte - University Institute of Lisbon

Awards: ISTA Top Talent - Academic Merit and Excellence Award (2022)

### Bachelor's of Science (BSc) in Computer Science and Engineering,

Iscte - University Institute of Lisbon

• Grade: 18 / 20

Awards: ISTA Top Talent - Academic Merit and Excellence Award (2019, 2020, and 2021)

# Professional Experience

Invited Teaching Assistant, Iscte - University Institute of Lisbon

Instructed bachelor's students in the courses of Theory of Computation and Algorithms & Data Structures. Developed a new practical assessment process and the required tools for the grading of students' programming assignments in the latter course.

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

11/2023 Lisbon, Portugal

09/2022 - present

Lisbon, Portugal

## Publications

# A Domain Specific Language for Dynamic White-Box Evaluation of Java Assignments

Authors: Afonso B. Caniço and André L. Santos.

Venue: 5th International Computer Programming Education Conference. Lisbon, Portugal. Summary: This paper describes the implementation of a Domain Specific Language (DSL) for introductory programming evaluation. We test the DSL against a set of real student assignment submissions to determine if our approach could offer additional insight for evaluation. I presented this paper at ICPEC 2024. (Recognised with the Best Paper Award.)

Witter: A Library for White-Box Testing of Introductory Programming Algorithms

Authors: Afonso B. Caniço and André L. Santos.

Venue: ACM SIGPLAN International Symposium on SPLASH-E, 2023. Lisbon, Portugal. Summary: 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 SPLASH-E 2023.

#### 19/10/2023

28/06/2024

## **≥** Skills

Object-Oriented and Functional Programming (Java, Kotlin, Python, C#, Scala), Software Testing (Beta Testing, Test-Driven Development, Software Evaluation), **Development Environments** (IntelliJ IDEA, Visual Studio IDE, Visual Studio Code, Pycharm), **Document Preparation** (LaTeX, Overleaf)

#### **Ⅲ** Certificates