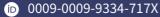
# Afonso Manuel Barral Caniço

# Software Engineer, Teaching Assistant

in linkedin.com/in/afonso-canico







#### **Education**

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

Iscte - University Institute of Lisbon ☑

09/2022 – 07/2024 Lisbon, Portugal

• Grade: 18 / 20

• 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 ☑

09/2019 – 06/2022 Lisbon, Portugal

• 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

09/2022 – present

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.

Lisbon, Portugal

**Professional Trainer,** Iscte - University Institute of Lisbon ☑ Instructed trainees during part of "UpSkill - Digital Skills and Jobs" ☑ , a professional qualification and employment programme by IEFP ☑ in partnership with Iscte.

11/2023 Lisbon, Portugal

#### Publications

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

28/06/2024

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

19/10/2023

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.

#### **≥** 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