# **Afonso Manuel Barral Caniço**

### Software Engineer, PhD Candidate

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#### **Education**

Doctoral Programme (PhD) in Information Science and Technology,	09/2024 – present
Iscte - University Institute of Lisbon ☑	Lisbon, Portugal

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

Iscte - University Institute of Lisbon ☑

• 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 ☑

• Grade: 18 / 20

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

09/2019 - 06/2022 Lisbon, Portugal

09/2022 - 07/2024

Lisbon, Portugal

### **⊞** Work 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.

09/2022 - 01/2025 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 Authors: Afonso B. Caniço and André L. Santos.

28/06/2024

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.

19/10/2023

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