# **Afonso Manuel Barral Caniço**

## Software Engineer, Teaching Assistant

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09/2022 - present

#### **Education**

Doctoral Programme (PhD) in Information Science and Technology, Iscte - University Institute of Lisbon ☑	09/2024 – present Lisbon, Portugal
<ul> <li>Master's of Science (MSc) in Computer Science and Engineering,</li> <li>Iscte - University Institute of Lisbon </li> <li>Grade: 18 / 20</li> <li>Awards: ISTA Top Talent - Academic Merit and Excellence Award (2022)</li> </ul>	09/2022 – 07/2024 Lisbon, Portugal
Bachelor's of Science (BSc) in Computer Science and Engineering, Iscte - University Institute of Lisbon ☑ • Grade: 18 / 20	09/2019 – 06/2022 Lisbon, Portugal

### Professional Experience

Instructed bachelor's students in the courses of Theory of Computation and Algorithms &	Lisbon, Portugal
Data Structures. Developed a new practical assessment process and the required tools for	
the grading of students' programming assignments in the latter course.	
<b>Professional Trainer,</b> Iscte - University Institute of Lisbon ☑	11/2023
Instructed trainees during part of "UpSkill - Digital Skills and Jobs" ☑ , a professional	Lisbon, Portugal
qualification and employment programme by IEFP ☑ in partnership with Iscte.	

#### 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)	

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.)

practical feasibility of a white-box software testing and feedback generation library for introductory programming assignments. I presented this paper at SPLASH-E 2023.

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

**Invited Teaching Assistant,** Iscte - University Institute of Lisbon ☑

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

### 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