

Afonso Manuel Barral Caniço

Software Engineer, Teaching Assistant

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🎓 Education

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

Iscte - University Institute of Lisbon [↗](#)

- Additional coursework in Programming Language Engineering

2022 – present
Lisbon, Portugal

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)

2019 – 2022
Lisbon, Portugal

💼 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 framework and the required tools for the grading of students' programming assignments in the latter course.

09/2022 – present
Lisbon, Portugal

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

📄 Publications

Witter: A Library for White-Box Testing of Introductory Programming Algorithms [↗](#)

19/10/2023

Authors: Afonso Caniço and André 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, C#, Kotlin, Python, Scala

Quality Assurance and Software Testing

Beta testing, Test-driven Development, Software evaluation

Development Environments

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

Academic Document Preparation

LaTeX

Web Development

HTML, CSS

Database Management

Relational databases (SQL)

📜 Certificates

Introduction to Complex Analysis, Wesleyan University, through Coursera [↗](#)

07/2020 – 09/2020