

Afonso Manuel Barral Caniço

Computer Engineer, Assistant Professor

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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
 - 2020/2021
 - 2021/2022

2019 – 2022
Lisbon, Portugal

📁 Professional Experience

Invited Senior 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 grading of students' programming assignments in the latter course.

09/2022 – present
Lisbon, Portugal

📜 Certificates

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

07/2020 – 09/2020

🔧 Skills

Object-Oriented Programming

Java, C#

Functional Programming

Kotlin, 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 + Overleaf

Web Development

HTML, CSS

Database Management

Relational databases (SQL)

Development Frameworks

Version control for collaborative work, e.g. Git; Agile development frameworks, e.g. SCRUM

</> Interests

Recreational Software Modification

Proficient in modifying games and similar forms of existing software, altering mechanics and interface functionality to enhance user experience using custom add-ons.

Recreational Mathematics Research

Hobbyist researcher of Mathematics and adjacent fields and their relation to programming and computation.