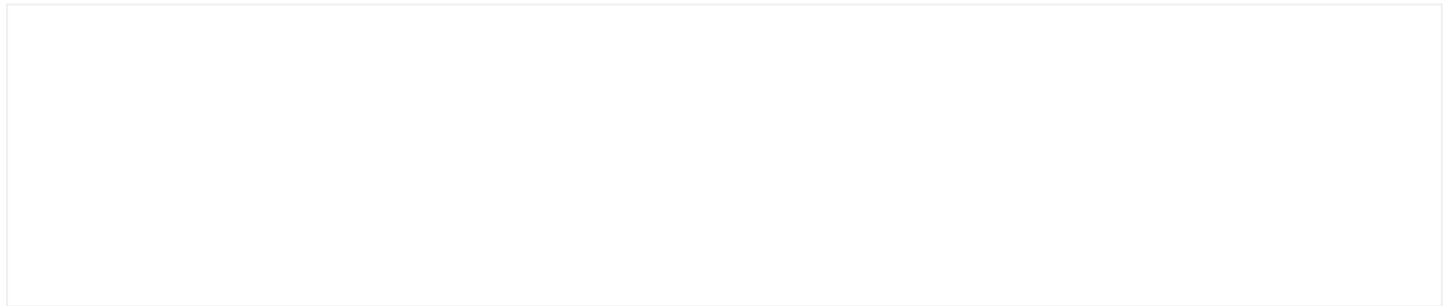


## Certificate

The Instituto Superior Técnico of the Universidade de Lisboa certifies that the student ist199259 **JOSÉ JOÃO ALVES DOS SANTOS FERREIRA**, holder of the Portuguese Citizen Card No 14890517 and of PORTUGUESE nationality, obtained the title of **Mestre em Engenharia Informática e de Computadores** (Computer Science and Engineering), on 14 November 2025, with the final grade of 17 (seventeen) points, in the scale of 0 - 20, having obtained a total of 120 ECTS, and having successfully completed the curricular units in the appendix.

The Certificate of Registration No 23123/IST/M/2026 was requested.



### Electronically signed document

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<https://certifier.tecnico.ulisboa.pt/tutorial>

The document is available at:

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Alternatively, you can directly access the file by reading the QR code using a camera and a QR code reader application.



<b>Curricular Unit</b>	<b>ECTS Credits</b>	<b>Grade</b>	<b>Academic Year</b>
<b>Software Architecture</b>	6.0	17 (seventeen) <sup>1</sup>	2023/2024
<b>Data Science</b>	6.0	15 (fifteen) <sup>1</sup>	2023/2024
<b>Communication Skills in Computer Science and Engineering I</b>	3.0	17 (seventeen) <sup>1</sup>	2023/2024
<b>Cloud Computing and Virtualization</b>	6.0	18 (eighteen) <sup>1</sup>	2023/2024
<b>Software Specification</b>	6.0	18 (eighteen) <sup>1</sup>	2023/2024
<b>Network and Computer Security</b>	6.0	16 (sixteen) <sup>1</sup>	2023/2024
<b>Multimedia Content Production</b>	6.0	19 (nineteen) <sup>1</sup>	2023/2024
<b>Data and Information Systems Management</b>	6.0	16 (sixteen) <sup>1</sup>	2023/2024
<b>Advanced Programming</b>	6.0	14 (fourteen) <sup>1</sup>	2023/2024
<b>Software Testing and Validation</b>	6.0	14 (fourteen) <sup>1</sup>	2023/2024
<b>Information Visualization</b>	6.0	17 (seventeen) <sup>1</sup>	2023/2024
<b>Data Analysis and Integration</b>	6.0	19 (nineteen) <sup>1</sup>	2024/2025
<b>Communication Skills in Computer Science and Engineering II</b>	3.0	15 (fifteen) <sup>1</sup>	2024/2025
<b>Master Dissertation in Computer Science and Engineering</b>	30.0	19 (nineteen) <sup>1</sup>	2024/2025
<b>User-Centered Design and Evaluation</b>	6.0	17 (seventeen) <sup>1</sup>	2024/2025
<b>2nd Cycle Integrated Project in Computer Science and Engineering</b>	12.0	18 (eighteen) <sup>1</sup>	2024/2025

<sup>1</sup>In 0 - 20 Scale — numbers between 0 and 20, RE (failed) or NA (not evaluated), where 20 is the maximum grade