



David José Alberto Carmo

Date of birth: 02/12/2000 | **Place of birth:** Guarda, Portugal | **Nationality:** Portuguese |

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Address: Portugal (Home)

ABOUT ME

Computer Engineer with a solid academic background and practical experience in software development, gained through both curricular and professional internships. Throughout my career, I have contributed to projects involving the restructuring and optimization of web platforms, the development of new features, and integration with SQL databases, always maintaining a strong focus on quality, usability, and user satisfaction.

I enjoy working collaboratively, adapt quickly to new technologies, and take a proactive approach to identifying and solving problems.

WORK EXPERIENCE

 **REDOCEAN - SOFTWARE THINKING & DIGITAL MARKETING** – VISEU, PORTUGAL

Business or Sector Education

SOFTWARE DEVELOPER – 06/01/2025 – 05/07/2025

Professional Internship

- Restructuring and optimization of the CRM platform used internally and commercialized by the company;
- Development of new features and redesign of existing modules, aligned with user needs;
- Interaction with SQL databases, including data manipulation, querying, and maintenance;
- Provision of technical support to clients;
- Identification and resolution of technical issues, contributing to system stability and efficiency.

 **REDOCEAN - SOFTWARE THINKING & DIGITAL MARKETING** – VISEU, PORTUGAL

SOFTWARE DEVELOPER – 07/08/2023 – 07/08/2024

Academic Internship

- Restructuring and optimization of the CRM platform used internally and commercialized by the company;
- Development of new features and redesign of existing modules, aligned with user needs;
- Interaction with SQL databases, including data manipulation, querying, and maintenance;
- Provision of technical support to clients;
- Identification and resolution of technical issues, contributing to system stability and efficiency.

 **DOM DIGITAL** – GUARDA, PORTUGAL

INTERN – 08/04/2018 – 01/07/2018

- Development of websites using HTML, CSS, and JavaScript;
- Updating web platforms to more modern formats;

- Utilization of the Salesforce platform to complete various free courses;
- Development of a real estate platform using Apex.

● EDUCATION AND TRAINING

19/09/2022 – 19/07/2024 Covilhã , Portugal

MASTER'S DEGREE IN COMPUTER ENGINEERING Universidade da Beira Interior - UBI

Completed a master's thesis focused on the full-stack development of a CRM application during a curricular internship at RedOcean. The thesis was awarded a grade of 17/20.

Address Rua Marquês de Ávila e Bolama, 6201-001, Covilhã , Portugal | **Field of study** Computer Engineering | **Final grade** 16 |

National classification 7 | **Type of credits** ECTS | **Number of credits** 120 |

Thesis Internship in the company RedOcean - Software Thinking & Digital Marketing: Development of a CRM Software Application

15/09/2019 – 07/07/2022 Covilhã, Portugal

BACHELOR'S DEGREE IN COMPUTER ENGINEERING Universidade da Beira Interior - UBI

Completed a final project for the course "Project," aimed at developing a fully functional web platform on the theme of sports, while simultaneously learning a new technology stack not previously covered in the curriculum. The project, titled "Web Platform for Athlete Physical Tracking," received a final grade of 17/20.

Address Rua Marquês de Ávila e Bolama, 6201-001, Covilhã, Portugal | **Field of study** Computer Engineering | **Final grade** 13 |

National classification 6 | **Type of credits** ECTS | **Number of credits** 120

07/09/2015 – 01/07/2018 Guarda, Portugal

CERTIFICATE IN COMPUTER EQUIPMENT MANAGEMENT TECHNICIAN Escola Profissional da Guarda - EnsiGuarda

Address Rua Comandante Salvador do Nascimento, N°43, 6300-678, Guarda, Portugal | **Field of study** Computer Engineering |

Final grade 17 | **National classification** 4

● LANGUAGE SKILLS

Mother tongue(s): **PORTUGUÊS**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	B1	B1	C1
SPANISH	A2	A2	A1	A1	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● SKILLS

Linguagem C | Trello | JavaScript | SQL | Python | Git | React | PHP | Nodejs | MongoDB | Firebase | Postman | Java | HTML | C | OOP | Django

● PUBLICATIONS

2023

[Improved Flaky Test Detection with Black-Box Approach and Test Smells](#)

Flaky tests can pose a challenge for software development, as they produce inconsistent results even when there are no changes to the code or test. This leads to unreliable results and makes it difficult to diagnose and troubleshoot any issues. In this study, we aim to identify flaky test cases in software development using a black-box approach. Flaky test cases are unreliable indicators of code quality and can cause issues in software development. Our proposed model, Fast-Flaky, achieved the best results in the cross-validation results. In the per-project validation, the results showed an overall increase in accuracy but decreased in other metrics. However, there were some projects where the results improved with the proposed pre-processing techniques. These results provide practitioners in software development

with a method for identifying flaky test cases and may inspire further research on the effectiveness of different pre-processing techniques or the use of additional test smells.

Authors: David Carmo; Luísa Gonçalves; Ana Dias; Nuno Pombo | **Journal Name:** 2023 IEEE Symposium on Computers and Communications (ISCC) | **Publisher:** IEEE

● **DRIVING LICENCE**

Driving Licence: B