

Rafael Graça | Computer Engineering Student | Software Developer

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Professional Summary

Dedicated Computer Engineering undergraduate at the Polytechnic Institute of Beja with a strong foundation in software development, database management, and mathematical modeling. Combines technical expertise in Java and SQL with proven leadership and teamwork skills gained through seasonal team management roles. Passionate about solving real-world problems through code and currently seeking internship opportunities to apply academic knowledge in a professional environment.

Education

Polytechnic Institute of Beja

Bachelor's Degree in Computer Engineering

Beja

2022 – Present

Currently in 3rd Year. Focus on Software Engineering, Data Structures, and Algorithms.

Secondary School of Vila Real de Santo António

Science and Technology Course

2022

Completed with focus on mathematics and sciences.

Academic Projects & Technical Experience

Object-Oriented Programming Projects

Java

Developer

2023 – Present

- Designed and built console-based applications and interactive games utilizing OOP principles (Inheritance, Polymorphism, Encapsulation).
- Implemented robust unit testing and collection frameworks to ensure code reliability and efficiency.

Database Systems Management

SQL Server / Access

Database Architect

2023 – Present

- Engineered optimized relational database schemas for complex data requirements.
- Developed advanced SQL queries, stored procedures, and user-friendly forms connected via ODBC for seamless data interaction.

Computational Mathematics & Simulation

MATLAB

Analyst

2022 – Present

- **De-Orbiting Project:** Simulated the atmospheric re-entry of a satellite using numerical integration and physical modeling.
- Developed algorithms for data visualization and statistical analysis, translating complex mathematical models into executable code.

Professional Experience

Summer Jobs

Seasonal Team Leader & Customer Assistant

Algarve

2020 – 2022

- **Leadership:** Led small task groups in a fast-paced environment, ensuring daily targets were met efficiently.
- **Communication:** Served as the primary point of contact for customers, resolving issues and maintaining high satisfaction levels.
- **Adaptability:** Managed shifting priorities and coordinated team schedules during peak season demand.

Technical Skills

- **Languages:** Java, SQL, MATLAB, JavaScript, C++ (Basic).
- **Web Development:** HTML5, CSS3, Basic Front-end frameworks.
- **Tools & Databases:** Git/GitHub, SQL Server, MS Access, VS Code.
- **Concepts:** OOP, Data Structures, Software Engineering, Relational Databases.

Soft Skills & Interests

Soft Skills: Team Leadership, Conflict Resolution, Time Management, Adaptability, Active Listening.

Languages: Portuguese (Native), English (Intermediate/B1-B2).

Interests: Web Development trends, Open Source contribution, Strategic Gaming, Community volunteering initiatives.

Driving License: Category B