

José de Matos Moreira

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EDUCATION

- **University of Minho** Braga, Portugal
Bachelor's Degree in Software Engineering *October 2020 – July 2023*
- **University of Minho** Braga, Portugal
Master's Degree in Software Engineering *September 2023 – Present*

EXPERIENCE

- **AlmaScience** Almada, Portugal
Software Engineer / Flutter Developer *December 2024 – June 2025*
 - **Front-End Development:** Developed a Flutter application based on provided UI designs.
 - **System Integration:** Integrated the application with an external API and MQTT services for real-time IoT data communication.
 - **Authentication:** Implemented user authentication and access control.
 - **Testing & Quality Assurance:** Performed automated and manual testing to ensure correct application behavior and reliability.

PROJECTS

- **3D Engine & Solar System Simulation:** 3D engine with scene graph architecture supporting hierarchical transformations, animation with Catmull-Rom curves, lighting, textures, and VBO rendering. Demonstrated with an animated solar system scene.
- **Judicial Rulings Aggregation Platform:** Full-stack web platform to aggregate, manage, and search judicial rulings from the Portuguese Ministry of Justice, featuring data cleaning in Python, a MongoDB database, RESTful API with Express, and an interactive web interface.
- **Pug-to-HTML Converter:** Compiler to convert Pug markup into HTML, implementing both lexical analysis (Lexer) and syntax analysis (Parser) to generate a structured derivation tree from input code.
- **Portuguese Football Statistics Platform:** Flask-based web application to aggregate, visualize, and manage detailed statistics for the Liga Portugal Betclic 2023/2024, featuring web scraping, ontology-based data modeling in GraphDB, RESTful API, and an interactive administrative interface.
- **Portuguese Sentiment Analysis Tool:** Sentiment analysis module for Portuguese text using lexicon-based methods, producing polarity scores, word statistics, and sentiment components, with support for evaluation on custom corpora.

PROGRAMMING SKILLS

- **Languages:** Python, Java, JavaScript, C, C++, C#, HTML, Haskell, Dart, SQL
- **Databases:** MySQL, MongoDB, GraphDB, MariaDB
- **Technologies:** React, Flutter, Node.js, Express, Flask, FastAPI

LANGUAGES

- **Portuguese** - Native, **English** - Fluent