

# Sandro Luís

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## About Me

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Computer Engineering student interested in emerging technologies and sustainable development. Practical experience in fullstack development and system integration with sensors in agricultural contexts. Participated in collaborative projects with real-world applications involving digital platforms, *IoT*, and intelligent systems. Values simple, efficient, and scalable solutions. Demonstrates adaptability, enjoys solving complex problems, and learning new technologies.

## Technologies

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**Languages:** Java, C++, C#, C, JavaScript, TypeScript, HTML, CSS

**Frameworks and Platforms:** .NET, .NET Core, Next.js, Spring Boot

**Databases:** SQL, MongoDB, InfluxDB

**Operating Systems:** Linux, Windows

## Education

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Bachelor's Degree at the Instituto Superior de Engenharia do Porto (ISEP), **Computer Engineering**

## Professional Experience

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**Sociedade Agrícola Casal da Cotovia**, Fullstack Developer

Porto, Portugal  
Feb 2025 – Jul 2025

- Developed a low-cost digital assistant for sustainable agriculture
- Integrated sensors and visual mapping to optimize irrigation and fertigation
- Created an intuitive digital system to support regulatory compliance
- Project integrated in the *Blended Intensive Programme (BIP)*

**Moce Desenhos**, Web Designer

Gondomar, Portugal  
Jul 2023 – Sep 2023

- Maintained and improved the *bumbajobs.com* website
- Optimized user experience based on testing and performance metrics
- Integrated new features in collaboration with the technical team
- Participated in technical meetings and requirements gathering

## Projects

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**Digital Assistant for Sustainable Agriculture**

2025

- Developed a decision support system for irrigation and fertigation using sensors, data visualization and *LLM*-based recommendations
- Technologies: Java, InfluxDB, React, *IoT*, LLaMA 3

***IoT* Monitoring System**

2025

- Implemented a sensor network for environmental data collection with time-series database integration
- Technologies: Java, InfluxDB, React, TypeScript, MySQL