SANTIAGO MOLINA SÁNCHEZ

SOFTWARE ENGINEER | FULL-STACK DEVELOPER

PORTALEGRE, PORTUGAL

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PROFESSIONAL PROFILE

Computer Engineering graduate from the Polytechnic University of Portalegre, currently pursuing a Master's degree in Computer Science at the same institution. Experienced in full-stack development (Java, Spring Boot, React, TypeScript, MySQL) and industrial automation (Schneider M221 PLC, Ladder, Node-RED, Modbus TCP), with a particular interest in automating physical systems through software.

Problem-solving and team-oriented, and quick to adapt to new domains: while developing a clinical system, I learned physiotherapy concepts to translate clinical needs into software requirements and features.

EDUCATION

Since 2026 **Polytechnic University of Portalegre - School of Technology, Management and Design (ESTGD)**
Master's Degree in Computer Science (in progress).

2023 – 2026 **Polytechnic University of Portalegre - ESTGD**
Bachelor's Degree in Computer Engineering.

PROJECTS

2025 – 2026 **ESTGD – MyMob Clinical System** – *Full-Stack Developer*
Development of a full-stack clinical application for patient triage and referral, using Java, Spring Boot, React, TypeScript, MySQL, REST API, JWT and Drools.

2025 – 2026 **ESTGD – Hydrogen Reactor Control** – *Industrial Automation / PLC*
Control and monitoring system for a hydrogen production reactor, with Ladder/GRAFCET programming on a Schneider M221 PLC, HMI interfaces in Vijeo Designer and remote supervision through Node-RED, InfluxDB and Modbus TCP.

March 2025 **Haute École Louvain en Hainaut, Mons, Belgium** – *Erasmus BIP — Tangible Interface for VR Applications*
International week on tangible interfaces for VR. Wrote the Arduino code for a board with an IMU (accelerometer and gyroscope) that moves a maze board in a Godot VR scene. Technologies: Arduino, ROS 2, Godot Engine.

PROFESSIONAL EXPERIENCE

2024 – 2025 **Espelho de Água, Portagem, Marvão** – *Bartender, Café-Bar*

- Front-of-house and bar service during the busy tourist season.
- Cash handling and stock replenishment.
- Teamwork under pressure during the summer season.

TECHNICAL SKILLS

Software Development: Java, Python, JavaScript, TypeScript, SQL, C, C++, C#, Spring Boot, .NET, React, Node.js, HTML/CSS, REST API, JWT, Drools

Databases: MySQL, PostgreSQL, InfluxDB

Industrial Automation: Ladder, GRAFCET, Schneider M221 PLC, SoMachine/EcoStruxure, Vijeo Designer (HMI), Modbus TCP, Node-RED

Networking & Security: Cisco Packet Tracer, BGP, IPSec VPN, Cisco ASA Firewall, Samba Active Directory, RAID

Robotics & Systems: Arduino, ROS 2, Godot Engine

Mobile Development: Flutter, Dart, Firebase, Android Studio

DevOps & Virtualization: Docker, Docker Compose, GitHub Actions (CI/CD), VMware

Tools: Git/GitHub, LaTeX, Typst

LANGUAGES

Spanish: Native | **Portuguese:** Native | **English:** C1

ADDITIONAL TRAINING

March 2026 **BioBIP - Bioenergy and Business Incubator of Portalegre** – *Workshop: Working with LaTeX*

June 2025 **Masterclass, Portalegre** – *YOLO - AI Tool for Object Detection and Tracking*

EXTRACURRICULAR ACTIVITIES

October 2026 **Digital Education Council × Pearson**

Participation in an international focus group on AI and collaborative learning; contributor to the report *Student Insights: AI and Collaborative Learning*.

AWARDS

2026 **ESTGD**
Data Analysis Hackathon, Portalegre — 3rd place.

2023 **Escola Secundária de S. Lourenço, Portalegre**
Academic Excellence and Merit Awards.

I authorise the processing of the personal data provided in this document for recruitment and selection purposes, in accordance with the General Data Protection Regulation (GDPR).