

MARCO SÈVEGRAND

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About Me

Software engineering student interested in how systems are designed, connected, and operated in practice. My focus is on infrastructure, networks, cloud, and security, and I am advancing my skills through coursework, personal projects, and Azure certification study. I also intend to pursue a Master's in Cybersecurity.

Experience

Store Associate & Web Developer

Feb 2026 – Present

Biobrassica

Braga, Portugal

- Help with day-to-day store work and customer support.
- Build and maintain the company website and e-commerce store as the sole developer.

Math & Physics Tutor

Sep 2025 – Present

Self-employed

Braga, Portugal

- Give one-to-one mathematics and physics lessons to high-school students.
- Prepare exercises and study plans based on each student's needs and exam goals.

Education & Credentials

B.Sc. Software Engineering

Sep 2023 – Jun 2026

University of Minho

Braga, Portugal

- Coursework in software architecture, algorithms and data structures, distributed systems, computer networks, and database systems.

Learning Kubernetes

Feb 5, 2026

LinkedIn Learning

ID: 6c8b28d6f4f8050b76bc371cd835ab70d36bb18bbc52af879c9ab202b25ff4d4

English C1 Advanced

May 2023

Cambridge Assessment English

Certification ID: C1827928

Skills

Core Tools: Go, Bash, Git, GitHub, Docker, Azure

Soft Skills: Proactive, clear communication, active listener, critical thinking, learning agility

Languages: Portuguese (Native), English (C1)

Currently Learning

- Kubernetes and container orchestration concepts.
- Azure cloud services in practice while preparing for the AZ-104 certification.
- Cybersecurity foundations through coursework and independent study.

Selected Projects

Document Indexing and Search Service

[Grade: 20/20]

C, Linux, POSIX IPC, FIFOs, LRU Cache, Concurrency

- Built a Linux document indexing service around FIFO-based client-server communication with persistent indexing for stateful retrieval.
- Added an LRU cache and parallel keyword search, with process cleanup and concurrency control for safe multi-document execution.

Distributed Time-Series Storage System

[Grade: 18/20]

Java, TCP, Multithreading, Thread Pool, Pub/Sub, Persistence

- Built a concurrent multi-client TCP server with a custom framed protocol, thread-pool execution, and safe shared-state handling.
- Developed a configurable time-series storage engine with in-memory caching, disk persistence, and real-time pub/sub notifications.

Space Communication Protocols & Simulator

[Grade: 19.5/20]

Go, TCP/UDP, React, Node.js, CORE Emulator, FEC

- Designed custom TCP and UDP protocols with FEC, fragmentation, ordered delivery, and exponential backoff retransmission.
- Simulated a mothership-rover mission architecture and built a real-time dashboard validated in CORE under packet loss and latency.

Database System for GreenMotion Solutions

[Grade: 18/20]

MySQL, SQL, ER Modelling, Relational Schema, Stored Procedures, Requirements Analysis

- Translated business requirements into an ER model and a normalised relational schema for a vehicle reservation platform.
- Implemented the MySQL database with procedural logic, DB-level business rules, and role-based access control.