



## JOÃO LUIS SARAIVA COSTA

**Nationality:** Portuguese **Birthday date:** 25/06/2002

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**For more detailed information about me:** [Site](#)

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**LANGUAGES** - (Mother) Portuguese, fluent in English

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### SKILLS

I have developed strong soft skills in effective communication, collaboration, leadership (both shared and solo), and problem solving through all of these experiences mentioned in this CV.

**Digital:** Python | C | JavaScript | Java | C++ | Linux | HTML | Git | React.js | Vue.js | Assembly | Docker | SQL

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### SPORTS

#### Taekwondo (Federated Athlete, Referee and Monitor)

I started Taekwondo when I was 10, competing for different clubs and winning medals in team and individual events. I represented IST in the National University Championship in 2022 and 2024, finishing 3rd both times. As a member of the federation, I've competed in over 200 tournaments. I was also a certified referee and have officiated at both district and national events. I've taught more than 30 young students in over 10 classes.

### EDUCATION

**Bachelor's Degree in Computer Science and Engineering at Instituto Superior Técnico**  
**[2021 - 2024]**

<https://tecnico.ulisboa.pt/en/>

**Master's Degree in Computer Science and Engineering at Instituto Superior Técnico**  
**[2024 - current]**

Master's focus areas: Distributed Systems and Cybersecurity.

**High School Diploma, Sciences and Technologies**  
<http://www.esars.pt/>

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### NETWORKS AND MEMBERSHIPS

#### Magma Studio Ambassador [10/2022 - current]

I promote events and job opportunities to help students like me to connect with the professional world, growing together through strong communication.

#### STT - Security Club of IST [06/2024 - current]

I joined the IST security team to learn more about cybersecurity. We work together on challenges called Capture The Flag, have weekly meetings to solve problems, and create security tools for competitions.

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### INTERNSHIPS

#### Internship at IST - Assembly and Monitoring of autonomous vehicles [2018]

I worked on building, programming and controlling a robot, using Arduino and Bluetooth to guide it.

#### Internship at IST - Introduction to Telecommunications INTELE [2019]

Learned about telecommunications, including long and short-distance communication, electromagnetism, and how the internet works.

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### VOLUNTEERING

#### Summer School Monitor

I supervised 40 children at a summer camp for two weeks, organizing activities and ensuring their safety as a team of 10 volunteers.

## COLLEGE PROJECTS

### Computer Networks Project

[Github](#)

This project is an auction platform developed in C, with an Auction Server and a User Application. Users can start, close, and participate in auctions, bid on items, view images, and check bid histories. The server manages auctions via UDP, while TCP is used for transferring item files. Users can also manage their accounts by logging in, out, or unregistering.

### Database Application Project

[Github](#)

In this project as a group, we created a database schema with tables for customers, orders, and products, ensuring data integrity through the use of Stored Procedures and Triggers. We developed complex SQL queries to analyze sales and track employee performance.

We also built a web application with Bootstrap, making the user interfaces easy to use. This improved the experience for customers and managers in searching for products and managing orders. Additionally, we used Python Flask for the API to facilitate communication between the web app and the database.

## OPEN SOURCE CONTRIBUTIONS

### Bug Fix: Enhancing the Transparent Headbar for Youtube Chrome extension

[Github](#)

I fixed a bug in an open-source Chrome extension for YouTube, improving the headbar's transparency for a cleaner and more minimal look. By updating the CSS and JavaScript, I made the interface less distracting and enhanced the user experience.

### Feature: Improved Shortcut Management for Youtube Extension - [05/2024]

[Github](#)

Me and my colleague fixed a shortcut conflict issue by adding an alert feature that notifies users if a chosen shortcut is already in use. Users can then decide to keep the old shortcut or assign the new one, preventing confusion. Changes take effect after refreshing the page.