

Tomaz Gonçalves Silva

✉ tomaz.goncalves.silva@gmail.com | ☎ 924399979 | 📍 Lisbon | 🔗 <https://portfolio-tomaz.netlify.app/>

Education

Instituto Superior Técnico

BS IN COMPUTER SCIENCE

GPA: 3.3 / 4

Lisbon

Sep 2021 – Jun 2024

Escola Secundária Dr. António Carvalho Figueiredo

HIGHSCHOOL

GPA: 3.9 / 4

Loures

Jun 2021

Work Experience

Machine Learning Intern

INESC (RESEARCH INSTITUTE)

- Developed different machine learning solutions to detect wildfires in real-time using video surveillance, covering **70%** of Portugal's forests
- Tested and compared several state-of-the-art models from **CNNs** to **Vision Transformers and Space State Models**
- Tech Stack:** TensorFlow, Pandas, Python

Lisbon

March 2024 – Present

Mathematics Tutor

SELF-EMPLOYED

- Tutored 3+ students weekly, providing 1-2 hour sessions for each, resulting in an **average grade increase of 25%** and an 100% approval rate
- Developed strong communication and quick thinking skills

2021 – 2024

Projects

WackJack (Personal)

[HTTPS://WAACKJACK.NETLIFY.APP/](https://waackjack.netlify.app/)

- Created a website to play blackjack without betting as a way of learning React.
- Used a public API to fetch cards to the player's and the dealer's decks

React, JavaScript, Solidity, APIs

2023

IStaples (University Coursework)

[HTTPS://GITHUB.COM/TOMHOQ/DATABASES-PROJECT](https://github.com/Tomhoq/databases-project)

- Built a full-stack online store that retrieves data from a PostgreSQL database integrated with Firebase

Flask, Python, SQL, HTML

2022

Study Room Ocupancy tracker (Personal)

[HTTPS://GITHUB.COM/TOMHOQ/OCCUPANCY-TRACKER](https://github.com/Tomhoq/occupancy-tracker)

- To solve the problem of study rooms in universities always being full, I developed a product that monitors and displays in real-time their occupancy on a website, improving the student's experience when trying to find an available room

C++, JavaScript, Arduino board

2022

Skills

Programming Languages: Java, C, C++, Python, SQL, JavaScript

Libraries & Frameworks: React, Vue, Flask, TensorFlow, Scikit-Learn

Other Technologies: Git, Docker, Vite, Jupyter

Awards & Certifications

2024 **C2 Proficiency in English,**

Cambridge English

2023 **Least Goals Conceded in a Roller Hockey Tournament,**

Portugal's Skating Federation

2021 **Academic Merit,** GPA > 3.5 / 4

Escola Dr. António Carvalho Figueiredo

2018 **Winner of a National level Roller Hockey tournament,**

Portugal's Skating Federation

2017 **Winner of a district level Roller Hockey tournament,**

Portugal's Skating Federation

Extracurricular & Hobbies

2005-NOW **Federated Roller Hockey Goalkeeper,**

Atlético Clube do Tojal

2011-NOW **Casual Tennis Player,**

Lisbon

2022-NOW **Self-taught guitar player,**

Lisbon

2017-2018 **Volunteer at Chão dos Bichos (Animal Shelter),**

Lisbon