Tomaz **Gonçalves Silva**

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Education

Instituto Superior Técnico *Lisbon*
BS IN COMPUTER SCIENCE *Sep 2021 – Jun 2024*
    GPA: 3.3 / 4

Escola Secundária Dr. António Carvalho Figueiredo *Loures*
HIGHSCHOOL *Jun 2021*
    GPA: 3.9 / 4

Work Experience

Machine Learning Intern *Lisbon*
INESC (RESEARCH INSTITUTE) *March 2024 – Present*
- Developed several 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

Mathematics Tutor
SELF-EMPLOYED *2021 – 2024*
- 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

Projects

WackJack (Personal) *React, JavaScript, Solidity, APIs*
HTTPS://WAACKJACK.NETLIFY.APP/ *2023*
- 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

IStaples (University Coursework) *Flask, Python, SQL, HTML*
HTTPS://GITHUB.COM/TOMHOQ/DATABASES-PROJECT *2022*
- Built a full-stack online store that retrieves data from a PostgreSQL database integrated with Firebase

Study Room Ocupancy tracker (Personal) *C++, JavaScript, Arduino board*
HTTPS://GITHUB.COM/TOMHOQ/OCCUPANCY-TRACKER *2022*
- 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

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 Profiency 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*