

Tomaz Gonçalves Silva

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Education

Technical University of Denmark

MSC IN COMPUTER SCIENCE

Specializing in Security

Copenhagen

2024-2026

Instituto Superior Técnico

BSC IN COMPUTER SCIENCE

GPA: 3.3 / 4

Lisbon

Sep 2021 – Jun 2024

Work Experience

Full Stack Engineer

Copenhagen

BIO SPRINGBOK APS

September 2024 – December 2024

- Developing and maintaining the startup's website, handling both **frontend** and **backend** responsibilities.
- Designing and implementing a **PostgreSQL** database hosted on an **EC2** virtual machine.
- Leveraging **AWS** services, including **S3** for large data storage and **Lambda** for invoking **AI inference** in real-time.
- **Tech Stack:** React, Spring, AWS, EC2, S3, Lambda, PostgreSQL, Java.

Machine Learning Intern

Lisbon

INESC (RESEARCH INSTITUTE)

March 2024 – October 2024

- 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**
- **Tech Stack:** TensorFlow, Pandas, Python, Pytorch

Data Scientist intern

Lisbon

KPMG

July 2024 - August 2024

- Gained hands-on experience with KPMG's data-driven sustainability initiatives, including the analysis of environmental impact data.
- Developed a business product using **Microsoft Fabric** to track and analyze emissions data.

Projects

HumanaEthica (University Coursework)

React, JavaScript, Solidity, APIs

NOT PUBLICLY AVAILABLE

2023

- Built a full-stack website with Vue, Java and PostgreSQL.
- Implemented Model-Service-Controller architecture to better isolate and prevent data leakage
- Developed Mock tests with Spock and Cypress and a pipeline on GitLab to ensure quality over time

WackJack (Personal)

React, JavaScript, Solidity, APIs

[HTTPS://WAACKJACK.NETLIFY.APP](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

Skills

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

Libraries & Frameworks: React, Vue, Spring, PostgreSQL, Flask, Pytorch, Scikit-Learn

Others: Git, EC2, S3, AWS Lambda

Awards & Certifications

2024 **C2 Proficiency in English,**

Cambridge English

2021 **Academic Merit,** GPA 3.9 / 4

Escola Dr. António Carvalho Figueiredo

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

Portugal's Skating Federation

Extracurricular & Hobbies

2005-2024 **Federated Roller Hockey Goalkeeper,**

Atlético Clube do Tojal

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

Lisbon