# Diogo Soares

Aspiring innovator of software, second year CS student.

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## PROJECTS

### MonAT — Monetized API Template

A simple REST API which provides the customer with an API key to access an endpoint. Depending on the usage, the user is billed more or less. This project implements Stripe so you can customize the exact billing amounts and periods.

### Luggage Sorting Robot — Embedded System using Sockets

As a group of 5 people we used Rust and a Raspberry Pi to build a robot which sorts colored discs, analogous to luggage at an airport conveyor belt. The system can be controlled with a UI which taught us how to implement WebSockets.

### todoey — Todo List

Web app which showcases CRUD operations. Despite it's minimalistic design, it makes sure the user is authenticated with a register and login page.

### Feedforward Neural Network — Diabetes prediction

TensorFlow experiments with diabetes dataset. Knowledge was acquired about the intricacies of neural networks and different activation functions were used to achieve an accuracy of 80%.

### Inspire — Quote Generator

An inspirational quotes website which allows users to tweet the quotes. Built with React and Tailwind CSS and consuming the API from API Ninjas.

## EXPERIENCE

### Game Developer, Gray Lake Studios — Intern

## EDUCATION

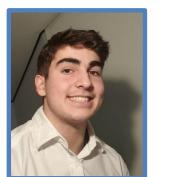### Eindhoven University of Technology, Eindhoven — Computer Science and Engineering

SEPTEMBER 2023 - PRESENT

Learned about the details of networks and how to mathematically reason about data structures. The degree is set to end in 2026.

### British School of Barcelona, Castelldefels — International A Levels

SEPTEMBER 2021 - JUNE 2023

Refined Computer Science expertise by implementing ADTs. Mathematics and Physics were the other subjects, with an achieved grade of A.

## SKILLS

Leadership and teamwork - basketball team captain for 4 years. Responsibility: leading warm-ups and motivating the squad.

Technical tools: Experienced with Git, Linux and Vim commands.

## AWARDS

**BRONZE CERTIFICATE Senior Mathematical Challenge 2022 –** United Kingdom Mathematical Trust

**Annual Attainment Award 2021/22 Year 12 Computer Science,**

**Annual Form Group Award 2020/21,**

**Speech Competition Winner 2016 –** The British School of Barcelona

## LANGUAGES

C, SQL, Typescript, Rust and Python.
English
Spanish
Catalan
Portuguese