

# Gonçalo Veiga

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## EDUCATION

**UNIVERSITY OF LISBON -  
INSTITUTO SUPERIOR TÉCNICO**  
MSc IN TELECOMMUNICATIONS AND  
COMPUTER SCIENCE ENGINEERING  
Major: DATA SCIENCE  
Minor: ARTIFICIAL INTELLIGENCE  
2022 - 2025

BSc IN TELECOMMUNICATIONS AND  
COMPUTER SCIENCE ENGINEERING  
2019 - 2023

## SKILLS

### TECHNICAL SKILLS

Python • Java • C/C++ • SQL • R  
Unix/Linux • Git • Scikit-Learn • Keras  
C# • JS • HTML/CSS • Kubernetes

### SOFT SKILLS

Curious • Open-minded • Creative  
Fluent English and Portuguese

## PERSONAL PROJECTS

### WEB SCRAPING | PYTHON

Mar 2021

Script for gathering information from my  
university website.

### 3D GAME | UNITY, C#

2017-2018

Box that dodges obstacles to reach goal.

### 2D GAME | RUBY

2015-2017

Made a "Pokémon" game at the age of 14.

## HONORS AND AWARDS

2022 AI Cloudflight Coding Contest - #14  
out of 54 international teams.

2018 National Senior Biology Olympics -  
Top in school.

2016 National Junior Chemistry Olympics  
- District Level round.

21 times awarded as a Merit Student.

7 years in a row in the school Honor Board  
and elected as Class Rep.

## TECHNICAL PROJECTS

### CLOUD WEB APP | GCP, TERRAFORM, ANSIBLE, VAGRANT, JS, MYSQL

Sep 2023 - Nov 2023 | Management and Administration of IT Infrastructures

- Responsible for architecture, deployment, networking and load balancing.

### REVIEWS CLASSIFIER | PYTHON, SCIKIT-LEARN, SEABORN, PANDAS

Sep 2023 - Nov 2023 | Natural Language

- Made an ensemble classifier for hotel reviews truthfulness and positivity.

### REGRESSION MODEL AND OBJECT CLASSIFICATION | PYTHON, TENSORFLOW, SCIKIT-LEARN, SEABORN, PANDAS

Sep 2022 - Nov 2022 | Machine Learning

- Made an efficient regression model in the presence of outliers with 91% accuracy in unseen data by implementing an outlier detection algorithm.
- Implemented a CNN to identify patterns in butterflies.

### LOAD BALANCING RESEARCH | KUBERNETES, DOCKER, GNS3

Mar 2022 - Jul 2022 | Research Project

- Created a Kubernetes cluster and evaluated load balancing algorithms under project guidance of a coordinator.

### QUIZZES TUTOR | JAVA, JS, SPOCK, CYPRESS, MAVEN, REST

Mar 2022 - May 2022 | Software Engineering

- Tested and implemented new features in a Quiz website with a team of 6.

### ENROLLMENT SERVICE | JAVA, GRPC, PROTOCOL BUFFERS, MAVEN

Mar 2022 - May 2022 | Distributed Systems

- Built a class enrollment service based on remote procedure calls.

### REGRESSION AND OUTLIER DETECTION | R

Dec 2021 - Feb 2022 | Data Analysis and Statistical Modelling

- Chose the best regression model for a real network traffic dataset with the use of Principal Component Analysis, outlier detection and the AIC score.

### SUPERMARKET DATABASE | SQL, PYTHON

Mar 2021 - Jun 2021 | Databases

- Designed an Entity-Relationship Diagram and built a SQL Database from it.

### UI DESIGN | P5.JS, FIGMA

Mar 2021 - Jun 2021 | Human-Machine Interfaces

- Achieved an 80+ SUS score for a mobile app UI by making it easy for the user.

### FILE SYSTEM | C, UNIX/LINUX

Oct 2020 - Dec 2020 | Operative Systems

- Built a user-level File System in a Linux Environment, incorporated Data Structures, Multithreading and a Client-Server Model.

### DISTRIBUTION COMPANY | JAVA

Oct 2020 - Dec 2020 | Object-Oriented Programming

- Built a Java application that serves as a manager for a distribution company.

### MAZE CHALLENGE | PYTHON

Oct 2019 - Dec 2019 | Programming Fundamentals

- Got one of the best solutions out of 320 students.