

Gael García Arias

A Coruña/Vigo – Galicia – Spain

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About Me

I am a Computer Engineering student at the University of A Coruña, specializing in computing. I have a strong interest in solving problems through technology and in continuously learning, whether through personal projects, university work, or real-world challenges. I also enjoy and actively promote Free and Open Source Software (FOSS).

Career Objective: I am currently interested in researching the application of computer vision models to solve real-world problems.

Interests: In addition, I enjoy sports in my free time, especially powerlifting and previously basketball, which helped me develop discipline, perseverance, and teamwork. Other interests include reading, music, and solving Rubik's cubes.

Education

IES A Guía

Technological Baccalaureate

Vigo

2020 - 2022

Faculty of Computer Science, University of A Coruña

B.Sc. in Computer Engineering

A Coruña

2022 - Present

Experience

Gradiant

Internship

Sept 2025 – Feb 2026

Research in the field of image forensics for the detection of deepfakes in video calls using characteristic patterns from camera sensors.

SAI

Department Collaboration Grant

Feb 2026 – Present

Migration of an application from FileMaker Pro 12 to VanillaJS + SQLite for financial management at the Research Support Service of the University of A Coruña.

Technical Skills

Languages: C, Python, Julia, Java, OCaml, Rust

Tools: Git (advanced), Docker, LaTeX...

Mathematical Background: Acquired through courses such as Discrete Mathematics, Linear Algebra, Calculus, Statistics and Probability

Languages: Spanish (native), Galician (native), English (C1)

Other: Advanced knowledge of GNU/Linux operating systems

Projects

Hackathons

- **HackUDC 2024 – Codee Graph Generator:** Python tool that generates graphs from the output of Codee using Matplotlib and mplot3d (HTML export). Containerized with Docker. [GitHub](#).
- **HackUDC 2025 – Expert Search:** Web application that allows users to find experts in different areas within a company. Backend built with FastAPI, frontend with React, and AI integration using a RAG system to answer questions when no expert is found. [GitHub](#).

University and Personal Projects

- Plant and leaf segmentation using classical computer vision algorithms.
- Python to Julia transpiler using Flex and Yacc.
- Powerlifting lift analysis using pose detection in Python with MediaPipe.
- Brain tumor detection using Flux and Julia, developed in the Machine Learning course.
- Information Retrieval system and document ranking using Java and Lucene.
- Shell in C that simulates the behavior of the Linux shell, developed in the Operating Systems course: [Shell](#).
- Browser extension for Firefox-based browsers to automate Renfe ticket booking: [Renfe Refresh Extension](#).
- Medication management application developed in Flutter.

Certificates and Other Credentials

IELTS: 7.0 (C1)

Driving License: Category B