Aitana Cantó Rico

Computer Engineering Student

Portfolio · aitanacanto.github.io

aitanacantorico5@gmail.com
github.com/aitanacanto
linkedin.com/in/aitana-cantó-rico

Profile

Final-year **Computer Engineering** student (Computing track) interested in **applied AI** and **automation**. Studied in English in **New Zealand and Greece**, with experience **coordinating teams** in university projects. Bachelor's thesis in collaboration with **Facephi**.

Education

2022–2027 **BSc in Computer Engineering (Computing)**, *University of Alicante*, Spain
- Thesis with **Facephi** on ID document validation, defence in January; expected completion February 2027.

2025 **Global Mobility exchange**, *University of Waikato*, New Zealand
- Courses in English: Computer Vision, NLP, Machine Learning for Data Streams and Software Engineering Design.

2025–2026 **Erasmus+ exchange**, *University of West Attica*, Athens, Greece
- Courses in English: Robotics, Information Retrieval and Internet of Things.

2022 **Professional Diploma in Classical Ballet**, *Novelda Professional Dance Conservatory*, Spain

Selected projects

2026 **ID Document Validation with Agents**, *Thesis with Facephi*
- Built a system that validates a Spanish ID card from a photo of each side: **OCR**, MRZ checks and data cross-checks.
- Designed an agent layer with **LangGraph** that decides when to use support tools, without losing accuracy.
- Created synthetic ID cards with deliberate errors and a web interface that shows the analysis step by step.

2025 **Real-Time Bus Crowding Forecasting**, *University of Waikato*
- Real-time learning models (**CapyMOA**) to forecast bus crowding, in an international team.

2025 **Academic Paper Search Engine**, *University of West Attica*
- Search engine with an inverted index and **TF-IDF** ranking over OpenAlex papers, used for my thesis.

2025 **Basement Band, Mashup Editor**, *University of Waikato*
- Led the frontend (**React, TypeScript**) and managed the repository in a team of four.
- Final presentation in English to a jury and classmates.

2024 **Bookink, Online Bookshop**, *University of Alicante*
- **Coordinated a team of seven**: task allocation, weekly planning and code integration on GitHub.
- Developed catalogue and shop administration features (C#, ASP.NET, SQL Server).

2024 **EasyCab, Distributed Taxi Fleet**, *University of Alicante*
- Distributed simulator communicating through **Apache Kafka** and sockets, deployed across three computers.
- Built the fleet visualisation (Pygame, Astro) and prepared the deployment.

Experience

IT Support and Digitalisation, *Revestimientos Mediterráneos S. L. (family business)*, Spain
- Solved computer, network and server issues, and helped with Microsoft 365 and Excel quotes.
- Trained staff on everyday tasks and set up remote desktop access.

Technical skills

Languages Python, Java, C++, C#, JavaScript, TypeScript, SQL
AI and data PyTorch, scikit-learn, Hugging Face, CapyMOA, LangGraph, PaddleOCR, OpenCV, pandas, NumPy
Development React, Node.js, FastAPI, Flask, ASP.NET, Apache Kafka, Docker, Git

Languages

Spanish Native
English B2 Cambridge (preparing C1)
Valencian Native (certified C1)
German A2