

Izan Beltran

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EDUCATION

- **Master's degree in Advanced Mathematics and Mathematical Engineering** at [Universitat Politècnica de Catalunya \(UPC\)](#) 2024 – 2025
Elective courses: Deep Learning, Blockchain, Quantum Cryptography, Computational Geometry, Codes and Cryptography, Randomized algorithms, Graph Theory, Algorithmic Game Theory
- **Degree in Mathematics** at [Universitat Politècnica de Catalunya \(UPC\)](#) 2020 – 2024

EXPERIENCE

- Software Engineer at [Databricks](#) Feb. 2026 — Current
- AI Engineer at [Axiomatic AI](#) May 2025 — Jan. 2026
Work on formalization of physics with Lean 4. Formalization and prover AI agents.
- Research Assistant at [Universitat Politècnica de Catalunya \(UPC\)](#) Jul. 2023 — Sep. 2023
Research on methods for automated chip floorplanning.
- Software Development Engineer Intern at [Amazon](#) Jul. 2022 — Oct. 2022
Improved the performance of API endpoints and created new ones. Reduced database usage. Web dev with React.
- Teaching assistant at [Universitat Politècnica de Catalunya \(UPC\)](#) Mar. 2022 — Dec. 2024
- Software Engineer Intern at [Capchase](#) Jan. 2021 — Apr. 2021

COMPETITIONS AND WORKSHOPS

- 11th place (11/120) at [Southwestern European Regional Contest \(SWERC\)](#) of the [ICPC](#) competition 2022
- 8th place (8/97) at [Southwestern European Regional Contest \(SWERC\)](#) of the [ICPC](#) competition 2021
- 22nd place (22/100) at [Southwestern European Regional Contest \(SWERC\)](#) of the [ICPC](#) competition 2020
- Participant at the [International Olympiad in Informatics \(IOI\)](#), Spanish team 2019
Best 4 high school students from each country are selected to participate in the IOI in representation of their countries.
- Gold medal (2nd) at [Spanish Olympiad in Informatics](#) 2019
- Gold medal (2nd) at [Catalan Olympiad in Informatics](#) 2019
- 1st place (1/99) at [HP Codewars Barcelona](#) 2019
- 23rd (23/500+) place at [Tuenti Challenge 9](#) 2019
- Silver medal (5th) at [Spanish Olympiad in Informatics](#) 2018
- Gold medal (2nd) at [Catalan Olympiad in Informatics](#) 2018

VOLUNTEER EXPERIENCE

- Problem setter and tester at the [Spanish Olympiad in Informatics](#), the [Catalan Olympiad in Informatics](#) and the [Spanish Girls Olympiad in Informatics](#) 2020 — Current
- Trainer and Deputy Leader of the Spanish Team at the [European Girls Olympiad in Informatics \(EGOI\)](#) 2021 — 2024

LANGUAGES

English — Fluent

Spanish — Native

Catalan — Native

SKILLS

C++, Python, Java, C, Scala, JavaScript, C#, Lean 4, Git, Docker, Kubernetes, Apache Spark, Linux, SQL, LangChain, LangGraph, PyTorch, Databases, Algorithms, Data structures, Machine learning, Deep learning, Software engineering, Formal verification, Theorem provers, Advanced mathematics, Statistics, Databricks