



# Luis de Carlos García

Mathematics & Informatics Engineering Student

## CONTACT

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## SKILLS

### Prog. Languages

- C++, C, Assembly
- Python (NumPy, SciPy, Pandas)
- Java, HTML, CSS, JS

### Tools & OS

- Linux (Arch), Git
- VSCode, LaTeX
- Computer Architecture

## LANGUAGES

- Español/Spanish** ●●●●●  
Native
- Català/Catalan** ●●●●●  
Native
- English** ●●●●●  
C2 (CPE)
- Deutsch/German** ●●●●●  
B1 (ZD)

## PROFILE

Motivated double-degree student at CFIS-UPC. Passionate about algorithms, high-performance computing, and software development. I specialize in applying mathematical thinking to solve complex programming challenges and have a strong foundation in autonomous learning.

## EDUCATION

### BS Mathematics and Informatics Engineering

CFIS-UPC (BarcelonaTech)

sep-2024 – feb-2029

- Double Degree:** Pursuing a highly selective curriculum emphasizing rigorous problem solving.
- Key Coursework:** Data Structures, Algorithms, OOP, Computer Architecture, Algebra, Calculus, Discrete Math, Theory of Information.

## PROJECTS

### Mario-like Game (C++ / OOP)

Mar 2025 – Jun 2025

- Engineered a modular 2D platformer game as part of the PRO2 curriculum.
- Implemented custom data structures (linked lists) to manage game entities, avoiding standard library overhead.
- Designed a scalable object-oriented architecture for game physics and interactions.

### Heat Equation Simulation (Python)

Mar 2025 – May 2025

- Developed a mathematical model to simulate temperature distribution inside the FME faculty.
- Utilized `numpy` and `scipy` for numerical computation and `matplotlib` for data visualization.
- Analyzed heat diffusion using Partial Differential Equations (PDEs).

## EXPERIENCE

### Shop Assistant / Manager

Aug 2024

Estanco L. de Carlos

Gernika, Spain

- Managed entire shop operations independently during August, demonstrating reliability and decision-making under pressure.
- Optimized inventory control and coordinated logistics for deliveries and stock.