Lluc Santamaria Riba

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Profile

Computer Science student at UPC (ranked 1st of 400, GPA 9.25/10), currently on exchange at EPFL. Interested in machine learning, algorithms, and financial markets. Proven strengths in leadership, problem-solving and organization.

Experience

Investment Society Lausanne, Student Association - IT Market Analyst

Lausanne, CH
Sep 2025 – Present

- Contributing to the management of the largest non-profit fund in the region
- Focused on identifying long-term value and dividend opportunities in telecommunications, semiconductors, and related technologies

Barcelona Supercomputing Center, Summer Internship - LLM Researcher

Barcelona, ES
Jul 2025 – Aug 2025

- Fine-tuned and evaluated a CodeLlama-based model on the MareNostrum 5 supercomputer to generate PyCOMPSs-parallelized code
- Updated and expanded the repository of PyCOMPSs examples, making it a solid foundation for training
- Designed and implemented a dataset generation pipeline, fully automated
- Gained expertise in distributed computing, cluster execution, and reproducibility

Eixos Creativa, Creative Technology Instructor

Barcelona, ES
Apr 2025 – Jun 2025

- Taught extracurricular creative technology program to 10–12-year-olds
- Led activities that promoted collaboration, creativity, and STEM engagement

ALBA Synchrotron, Software Engineer Intern

Cerdanyola del Vallès, ES
Oct 2024 – Apr 2025

- Developed web applications using Django, RESTful API, and AngularJS
- Worked in Agile Scrum methodology and used CI/CD technologies
- Helped to automate and speed up enterprise internal processes

Ibericus, Waitperson

Barbera del Vallès, ES
Jul 2024 – Aug 2024

- Provided table service and handled food orders
- Assisted customers and ensured a positive experience

Barcelona School of Informatics (UPC), Lecturer in Mathematics (Scholarship)

Barcelona, ES
Feb 2024 – Jun 2024

- Delivered lectures on discrete mathematics to first-year university students.
- Served as the coordinator for some lecturers, ensuring alignment and consistency

McDonald's, Waitperson and Cook

Barbera del Vallès, ES
Jun 2023 – Aug 2023

- Prepared food accurately and quickly, ensuring quality and cleanliness standards
- Delivered fast service while handling customer orders and concerns efficiently

Education

EX **École Polytechnique Fédérale de Lausanne (EPFL)**, Exchange Program

Lausanne, CH
Sept 2025 – Jan 2026

- Erasmus exchange program during 5th semester
- Awarded three scholarships for the exchange

BE **Universitat Politècnica de Catanunya (UPC)**, Computer Engineering

Barcelona, ES
Sept 2022 – Present

- Top 1 student of my cohort with a GPA 9.25/10

- Honors in 16 courses
- Elected as delegate for three courses

HS	**Institut-Escola Frederic Mistral**, Technological High School	Barcelona, ES Sept 2020 – June 2022

- Ranked among the top students in the university entrance exams (grade 12.7 out of 14)
- Completed high school with distinction (grade 8.72 out of 10)

Awards and Scholarships

Universitat Politècnica de Catalunya (UPC), Highest GPA Award
- Ranked #1 of nearly 400 students in the first two years of the degree program

Heyning-Roelli Foundation, Exchange Scholarship
- Competitive merit-based scholarship supporting exchange studies at EPFL.

Fundación Banco Santander, Exchange Scholarship
- Merit-based scholarship awarded to top Spanish university students for international exchange at EPFL

SUI Hackathon, Winner
- Winner at the SUI Foundation Hackathon 2025 (Lausanne) for the Healix blockchain project

Minister of Research and Universities, Honor Letter
- National recognition for outstanding results in the university entrance exams

Projects

Healix, SUI Hackathon Winner Project — bit.ly/suiHack ↗
- Decentralized platform for sharing emotions securely on the Sui blockchain
- On-chain encryption using SEAL and Move smart contracts.

Snap2Shop, HackUPC Hackathon, Inditex Challenge — bit.ly/hackUPC ↗
- Computer Vision solution for visual search of fashion clothes
- Mobile app built with Flutter, FastAPI and Inditex API

Volunteering

El Teix, Muntanyes del Terraprim — Viladamat, ES / Jul 2019
- Restoring fire-damaged forests and connecting cultural heritage sites

Fundesplai, Recuperem el patrimoni de la Vall de Sau — Vilanova de Sau, ES / Jul 2020
- Forest restoration, wildlife monitoring, maintenance, and signposting of hiking trails

Anegx, Viu la natura al Parc Natural de la Garrotxa — Olot, ES / Jul 2021
- Forest conservation, community work, and awareness activities in the volcanic area

Languages

- **Catalan and Spanish:** Native
- **English:** Proficient. Cambridge English C1 Advanced, Score: 183

Technologies

- **Programming:** Python, C++, Java, SQL, JavaScript, HTML, CSS, Bash
- **Frameworks & Libraries:** Django, React, AngularJS, Flutter, PyTorch
- **Parallel/Distributed:** OpenMP, COMPSs, AsyncIO.