

Lluc Santamaria Riba

📍 Lausanne, CH ✉ lluc.santa@gmail.com ☎ +34 639 41 25 89 🔗 lluc24.github.io in Lluc Santamaria

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

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| <p>Scala Center, Research Intern</p> <ul style="list-style-type: none"> • Implement divergence checking for match types in the Scala 3 compiler • Work on type-level algorithms guided by Martin Odersky and Matthieu Bovel | <p>Lausanne, CH
Sep 2025 – Present</p> |
| <p>Investment Society Lausanne, Student Association - IT Market Analyst</p> <ul style="list-style-type: none"> • Conduct market research on IT companies to identify investment opportunities. • Prepare and present short investment pitches to support fund decisions. | <p>Lausanne, CH
Sep 2025 – Present</p> |
| <p>Barcelona Supercomputing Center, Summer Internship - LLM Researcher</p> <ul style="list-style-type: none"> • 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 | <p>Barcelona, ES
Jul 2025 – Aug 2025</p> |
| <p>Eixos Creativa, Creative Technology Instructor</p> <ul style="list-style-type: none"> • Taught extracurricular creative technology program to 10–12-year-olds • Led activities that promoted collaboration, creativity, and STEM engagement | <p>Barcelona, ES
Apr 2025 – Jun 2025</p> |
| <p>ALBA Synchrotron, Software Engineer Intern</p> <ul style="list-style-type: none"> • 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 | <p>Cerdanyola del Vallès, ES
Oct 2024 – Apr 2025</p> |
| <p>Barcelona School of Informatics (UPC), Lecturer in Mathematics (Scholarship)</p> <ul style="list-style-type: none"> • Delivered lectures on discrete mathematics to first-year university students. • Served as the coordinator for some lecturers, ensuring alignment and consistency | <p>Barcelona, ES
Feb 2024 – Jun 2024</p> |

Education

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| <p>EX École Polytechnique Fédérale de Lausanne (EPFL), Exchange Program</p> <ul style="list-style-type: none"> • Erasmus exchange program during 5th semester • Awarded three scholarships for the exchange | <p>Lausanne, CH
Sept 2025 – Present</p> |
| <p>BE Universitat Politècnica de Catalunya (UPC), Computer Engineering</p> <ul style="list-style-type: none"> • Top 1 student of my cohort with a GPA 9.25/10 • Honors in 16 courses • Elected as delegate for three courses | <p>Barcelona, ES
Sept 2022 – Present</p> |
| <p>HS Institut-Escola Frederic Mistral, Technological High School</p> <ul style="list-style-type: none"> • Achieved honors in the university entrance exams (grade 12.7 out of 14) • Completed high school with distinction (grade 8.72 out of 10) | <p>Barcelona, ES
Sept 2020 – June 2022</p> |

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

tinyurl.com/SUIHacking 

- Decentralized platform for sharing emotions securely on the Sui blockchain
- On-chain encryption using SEAL and Move smart contracts.

Snap2Shop, HackUPC Hackathon, Inditex Challenge

tinyurl.com/HackUPC 

- Computer Vision solution for visual search of fashion clothes
- Mobile app built with Flutter, FastAPI and Inditex API

Volunteering

Anegx, Viu la natura al Parc Natural de la Garrotxa

Olot, ES

- Forest conservation, community work, and awareness activities in the volcanic area

Jul 2021

Fundesplai, Recuperem el patrimoni de la Vall de Sau

Vilanova de Sau, ES

- Forest restoration, wildlife monitoring, maintenance, and signposting of hiking trails

Jul 2020

El Teix, Muntanyes del Terraprim

Viladamat, ES

- Restoring fire-damaged forests and connecting cultural heritage sites

Jul 2019

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.