

# Ruben Lellouche

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## SUMMARY

Third-year Bachelor student in Computer Science at EPFL, curious, driven and people-oriented. I am fascinated by how technology is reshaping the way we live, work and connect, and I chose this field to understand the systems behind that shift, from data and networks to artificial intelligence. Most excited by AI-driven products and the startup ecosystem; a natural leader and team player with a competitive sports mindset who takes ownership and thrives in fast-paced environments.

## EDUCATION

### École Polytechnique Fédérale de Lausanne (EPFL)

BSc in Computer Science

Lausanne, Switzerland

Sept 2024 – Jan 2028 (expected)

- **Programming & Algorithms:** Java (OOP), Python, Algorithms, Software Construction, Functional Programming, Introduction to Machine Learning, Numerical Methods for Visual Computing and ML.
- **Architecture & Systems:** Computer Systems, Computer Architecture, RISC-V Assembly, Fundamentals of Digital Systems (Verilog).
- **Scientific Fundamentals:** Analysis I/II, Linear Algebra, Probability and Statistics, Discrete Mathematics, General Physics, Electromagnetism.

### Athénée Ganenou

Belgian Upper Secondary Diploma (CESS)

Brussels, Belgium

2018 – 2024

- Best final-year project in class: a persuasive oral plea on *power through fear*.

## EXPERIENCE

### BNP Paribas Group – Fintro

Intern, Regional Sales Management

Brussels, Belgium

Apr 2024 (1 month)

- Joined the regional sales management team overseeing Fintro's activity in Brussels, Walloon Brabant and Hainaut.

### European Space Agency (ESA) – ESA Academy

Intern, Training and Learning Programme

Redu, Belgium

Mar 2023 (1 month)

- Joined the team running ESA Academy's Training and Learning Programme for university students in space-related fields.

## PROJECTS

### ReChor | Java, JavaFX

[github.com/rublell/ReCHor](https://github.com/rublell/ReCHor)

- Built a Swiss public transport route planner that returns several **Pareto-optimal** journeys between two stations, trading off travel time against number of transfers, using **multi-criteria routing**.
- Developed a **JavaFX** interface to search, compare and inspect journeys: times, stops, platforms and transfers.

### ICoop | Java, Object-Oriented Design

[github.com/rublell/ICoop-Fire-and-Water](https://github.com/rublell/ICoop-Fire-and-Water)

- Designed a 2-player cooperative game with two elemental characters, enemies, items and a final boss on a 2D game engine.
- Applied object-oriented design: **double dispatch** (visitor pattern), **polymorphism** and a modular entity architecture.

## LEADERSHIP & VOLUNTEERING

### Alliance Brith – national federation of five youth organizations

President (elected)

Brussels, Belgium

Sept 2023 – June 2024

- Raised **over €20,000** for the federation by organizing its flagship sports event for **~1,000 participants**, coordinating all five member organizations.
- Elected by the five member organizations out of ~10 candidates; also ran a residential seminar for ~200 participants and a national remembrance march with a public speech.

### Hashomer Hatzair youth movement

Youth Leader

Brussels, Belgium

Sept 2022 – June 2024

- Co-organized summer camps for **200 children** with a **€200,000 budget**; led weekly educational and sports activities for children aged 6–8.

## SKILLS

**Programming:** Java, Python, C, RISC-V Assembly, Verilog

**Frameworks & Tools:** JavaFX, Git / GitHub, IntelliJ IDEA

**Languages:** French (native), English (C1), Dutch (B2)

**Interests:** AI & Tech, Startups, Tennis, Padel, Krav Maga

**Work authorization:** Belgian (EU) citizen