

Lorenzo Drudi

MSc Student in Computer Science · EPFL

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Experience

Software Engineer Intern | DevOps

Remote

MLH FELLOWSHIP

Jun 2022 - Sep 2022

- Selected as one among 220 fellows out of thousands of applicants in the *MLH Summer Fellowship Program*.
- Worked with the *G-Research DevOps OpenSource team*.
- Managed *GitHub Runners* infrastructure using *Pulumi*.
- Automated workflows using custom *GitHub Action* written in *JavaScript*.
- Simplified several processes resulting in a significant increase in productivity.
- **Tech Stack:** [Java, JavaScript, TypeScript, Pulumi, AWS, GCP, Linux, Docker, GitHub/GitHub Actions].

Education

MSc in Computer Science

Lausanne, Switzerland

ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE (EPFL)

Sep 2023 - present

- Specialization in **Software systems**.
- **Focus:** Machine Learning, Data Analysis, and Distributed Systems.

BSc in Computer Science and Engineering

Cesena, Italy

UNIVERSITY OF BOLOGNA

Sep 2020 - Jul 2023

- Final mark: **110/110 cum laude**, GPA: **29.5/30** (top 0.3%).
- **Focus:** Algorithms and Data Structures, High-Performance Computing, Operation Research, OOP.
- **Student Researcher** in collaboration with the *IRCCS IRST "Dino Amadori"* (Meldola, Italy) during my third year.
- **Merit Scholarship:** merit award granted to the 69 best students of the School of Engineering and Architecture (top 1%).

Projects

TDSFT (Two-Dimensional Segmentation Fusion Tool)

- Bachelor's dissertation project.
- Open-source tool developed in *MATLAB* and distributed as a standalone application for *MAC*, *Linux*, and *Windows*.
- It offers a simple and extensible interface where numerous algorithms are proposed to "mediate" multiple segmentations.
- In collaboration with the *IRCCS IRST "Dino Amadori"* of Meldola, Italy.
- Currently working on a scientific publication.
- **Tech Stack:** [MATLAB, App Designer, ImageJ/Fiji, Image Processing Toolbox, Parallel Computing Toolbox].

Network-flows

- Command line solver for network flow optimization problems.
- "*Maximum Flow*" and "*Minimum Cost Flow*" algorithms.
- It offers a graphical visualization of the graph.
- **Tech Stack:** [C++, CMake, Python, Matplotlib, Linux].

Autonomous Drone Racing Team

- In partnership with the *Technology Innovation Institute of Abu Dhabi (TII)*.
- Developed a simulated autonomous drone presented to the *ICRA DodgeDrone Challenge*.
- **Tech Stack:** [Python, ROS, AWS, Keras, TensorFlow].

Awards

Lead The Future Mentorship

Among the few Italian students selected to be mentees for *LeadTheFuture*. *LeadTheFuture* is a leading mentorship non-profit organization for students in STEM, with an acceptance rate below 20%.

Prometeia Talent Journey Hackathon - 1st place

Algorithm and data structure competition hosted by *Prometeia* in which all students from my university participated.

Banca Malatestiana Merit Scholarship

Merit Scholarship given from *Banca Malatestiana* for my High School performance.