

Lorenzo Drudi

MSC STUDENT IN COMPUTER SCIENCE · EPFL

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Experience

Software Dev Engineer Intern

AMAZON WEB SERVICES (AWS)

Dublin, Ireland

July 2024 - Present

- Team: **AWS CloudWatch Alarms**.
- Tasks: Focusing on the **top customer issue** by increasing alarms reliability.
- **Tech Stack**: [Java, Ruby, Python, AWS].

Software Engineer & Imaging Researcher Intern

ROMAGNA INSTITUTE FOR CANCER STUDY "DINO AMADORI" - IRST

Meldola (FC), Italy

Dec 2022 - Aug 2023

- Team: **MiAi** (Microscopy & Artificial Intelligence).
- Research Topics: **Image Processing**, Image Fusion, and Image Reconstruction applied to the field of Oncology.
- Tasks: Developed several state-of-the-art algorithms for the fusion of multiple 2D segmentations (*TDSFT*).
- **Tech Stack**: [MATLAB, App Designer, ImageJ/Fiji, Image Processing Toolbox, Parallel Computing Toolbox].

Software Engineer & DevOps Intern

MLH FELLOWSHIP - G-RESEARCH

Remote

Jun 2022 - Sep 2022

- Selected as one among 220 fellows out of thousands of applicants in the *MLH Summer Fellowship Program*.
- Team: **G-Research DevOps OpenSource**.
- Tasks: Automated workflows using custom *GitHub Action* written in *JavaScript*. Achieved a significant productivity improvement.
- **Tech Stack**: [Java, JavaScript, TypeScript, Pulumi, AWS, GCP, Linux, Docker, GitHub/GitHub Actions].

Education

MSc in Computer Science

ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE (EPFL)

Lausanne, Switzerland

Sep 2023 - present

- Specialization in **Data Analytics**. GPA: **5.4/6**
- **Focus**: Deep Learning, Distributed Systems, Machine Learning and Natural Language Processing.

BSc in Computer Science and Engineering

UNIVERSITY OF BOLOGNA

Cesena, Italy

Sep 2020 - Jul 2023

- Final mark: **110/110 cum laude**, GPA: **29.5/30**.
- **Focus**: Algorithms and Data Structures, High-Performance Computing, and OOP.
- **Excellence Scholarship**: merit award granted to the 69 best students of the School of Engineering and Architecture (top 1%).
- **Sergio Focardi Graduation Award**: presented annually to the top-performing student of the academic year.

Projects

Semester project student - EPFL

- Laboratory: *DLAB*, Supervisor: prof. Robert West.
- Tasks: Prompt-level shaping of **LLM personalities** and study of interactions between **LLM-based agents** with distinct personality traits.
- **Tech Stack**: [Python, PyTorch, Transformers, LMQL].

Autonomous Drone Racing Team

- 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].

Publications

Zakazov I^{*}, Boronski M^{*}, **Drudi L^{*}**, West R (2024). *Assessing Social Alignment: Do Personality-Prompted Large Language Models Behave Like Humans?* NeurIPS 2024 Workshop on Behavioral ML.

Piccinini F^{*}, **Drudi L**, Pyun J-C, Lee M, Kwak B, Ku B, Carbonaro A, Martinelli G and Castellani G (2024). *Two-dimensional segmentation fusion tool: an extensible, free-to-use, user-friendly tool for combining different bidimensional segmentations*. *Frontiers in Bioengineering and Biotechnology* (Q1, IF: 5.7).

Awards

Lead The Future Mentee

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%.