

Education

École Polytechnique Fédérale de Lausanne (EPFL)

Lausanne, Switzerland

MASTER OF SCIENCE - DATA SCIENCE MAJOR & FINANCIAL ENGINEERING MINOR

2022 - PRESENT

- **Elected student representative** for the Data Science class of 2024.
- **Relevant courses:** Modern Natural Language Processing, Machine Learning, Large Scale Data Analysis, Applied Data Analysis, Information Security & Privacy, Stochastic Calculus, Derivatives, Investments Financial Big Data, Global Business Environment.
- **Relevant Projects:** [MNLP] RAG-enabled DPO-tuned LLM for MCQ answering on EPFL exam questions, [Large Scale Data Science] Interactive Robust Journey Planning on the CFF network (scored full points and project used as reference for future editions of the course), [Financial Big Data] Dynamic Correlation Analysis of Cryptocurrency Markets Using Intraday Data, [Machine Learning] Sentiment Classification Using Deep Learning.

KTH Royal Institute of Technology

Stockholm, Sweden

EXCHANGE YEAR (WITH A CHF 3'800 SCHOLARSHIP) - COMPUTER SCIENCE

2021 - 2022

- **Relevant Projects:** [Language Engineering] Keyboard Autocomplete using Neural Networks, [Web Dev] Interactive Progressive Web Application.

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Lausanne, Switzerland

BACHELOR OF SCIENCE - COMMUNICATION SYSTEMS

2019 - 2022

- **Teaching assistant** for CS251 Theory of Computation.
- **Relevant courses:** Object-Oriented Programming, Functional Programming, Algorithms, Parallelism and Concurrency.

Professional Experience

Atos Technology Services

Nyon, Switzerland

DATA SCIENTIST

Jul. 2023 - PRESENT

- Took part in the development of a **RAG-enabled LLM platform** with **AI agent** automations to trigger actions, leveraging cloud infrastructure.
- Deep Learning and Computer Vision using **satellite imagery** to anticipate and manage the impacts of climate change on Swiss mountain territories.
- Presented **client-focused innovation ideas and POCs** to AWS solutions architects.

Dynamilis — EPFL DeepTech Spinoff

Lausanne, Switzerland

MACHINE LEARNING & SOFTWARE ENGINEER

Jul. 2022 - Jun. 2023

- Implemented features for Dynamilis, iPad app designed to diagnose dysgraphia in children and help them overcome handwriting difficulties.
- Performed **feature engineering** to help reduce the number of inputs fed to the app's **dysgraphia diagnosis ML model**.
- Managed to **consistently deliver features independently** while taking advantage of the team's support to get advice when needed.
- Initially part of the EPFL Summer in the Lab program, a highly selective 8-week intensive research training experience.
- Developed my public speaking skills by **sharing my results on stage** to a group of EPFL board members.

Skills

Programming Python, Java, C, Matlab, Swift, Scala, Git, Spark, SQL, Pandas, PyTorch, Tensorflow, Streamlit, AWS S3, AWS SageMaker, ReactJS

Software Final Cut Pro, Adobe Suite (Premiere Pro, Photoshop, Lightroom)

Spoken Languages French (native), English (C2), Arabic (dialect: native - classical: B1), Spanish (B1)

Extracurricular Activities

Junior Enterprise EPFL

Lausanne, Switzerland

PROJECT MANAGER

Jan. 2023 - Jan. 2024

- Non-profit student-run technical consulting company with a **CHF 300k yearly turnover**.
- Managed 12 projects over the course of a year, ensuring client expectations are always met and often exceeded.

Fika - subscription-based coffee service on campus

Lausanne, Switzerland

PRESIDENT

Sep. 2022 - Jun. 2023

- Led 13 students in an effort to deliver a subscription providing **1 coffee every two hours for CHF 8**.
- Managed the development of a **mobile application** designed to handle subscription logging.
- Ended up selling over **150 subscriptions** and serving **860+ coffees over the week**, exceeding our targets for this pilot project.

The Finance Association EPFL

Lausanne, Switzerland

HEAD OF IT & TRADING GAME ORGANIZER

Jan. 2021 - Jun. 2023

- Managed the **ranking system and cheating detection** for Switzerland's largest Trading Game.
- Redesigned and implemented the association's website from scratch.