

## 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.

### École Polytechnique Fédérale de Lausanne (EPFL)

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 & AI CONSULTANT

Jul. 2023 - PRESENT

- Participated in the development of a **RAG-enabled LLM platform** with **AI agent** automations to trigger actions, using the cloud infrastructure.
- Deep learning and computer vision using **satellite imagery** to anticipate and manage the impacts of climate change on Swiss mountain regions.
- 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 Entreprise 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

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