



# Zakariya Taha

Data Science Master student at EPFL

## CONTACT

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Portfolio



LinkedIn



GitHub

## Skills

- **Python, Java**, SQL, Git, Scala, Latex, C, VHDL, Assembly, Processing.
- Excel, Powerpoint, Outlook, Word, Eclipse, VSC, PyCharm, DataGrip, VMware.
- **Teamwork** with a good sense of leadership, conflict management and active listening.
- **Autodidact** with strong adaptability, reliability and organisation.
- A good sense of **problem-solving** and decision-making.

## Languages

**Arabic** : Native

**French** : Bilingual

**English** : Fluent

## Main courses

Algorithms, Stochastic models, Probabilities and statistics, Functional programming, Introduction to machine learning, Introduction to visual computing, Computer networks, Computer Architecture, Computer security, Introduction to database systems.

## PROFILE

22 years old master student at EPFL (École Polytechnique Fédérale de Lausanne) in the field of Data Science, passionate about algorithmic and machine learning.

Detail-oriented, possessing extensive analytical skills and a significant ability to work in team environments, I'm looking for an internship to put my acquired skills into application within an innovative and dynamic environment.

## EXPERIENCE

### Analysis and physics student teaching assistant - EPFL

09/2020 - now

- Assisted 100+ students to understand theoretical concepts of analysis and physics given to first year Communication Systems engineers and Micro-engineers, providing them with the necessary resources to improve their skills.

### Research student assistant - Xplore (with VITA Lab at EPFL)

02/2021 - 07/2021

- Tackled a new aspect of the stereo odometry challenge with 360° cameras, using **convolutional neural networks** in order to determine the position of the rover.
- Analyzed multiple **papers** to evaluate the existing methods.
- Processed our dataset to match stereo camera images with LiDar output using **Numpy** and **OpenCV**.
- Leveraged **CNN** and our dataset to create a depth map from stereo camera images (**Pytorch**).

## EDUCATION

**Master of Data Science** - EPFL, Switzerland

09/2021 - now

**BSc in Communication Systems** - EPFL, Switzerland

2018 - 2021

**CMS** - EPFL, Switzerland

2017 - 2018

**Baccalaureat** - Belbachir, Morocco

2014 - 2017

## Projects

- **KNN**: Implement and evaluate a program capable of recognizing handwritten numbers (**Java**)
- **Grid game**: Small game engine allowing you to create RPG-type two-dimensional grid games (**Java**)
- **Javass**: Variation of the famous Jass game, can be played remotely with others. (**Java**)
- **Database Project**: Processed a huge raw dataset by building ER and relational schemas, cleaning data (**Python Pandas**), loading it into **DataGrip**, realizing multiple complex queries (**SQL**) and optimizing them.
- **Multicycle Nios II Processor**: implement a simple multicycle processor architecture (**VHDL**)