



Taha Zakariya

Data Science Master student at EPFL

CONTACT



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Skills

- **Python, Java**, SQL, Git, Scala, Latex, C, VHDL, Assembly, Processing.
- Eclipse, VSC, PyCharm, DataGrip, VMware, Google Colab, Microsoft Office.
- **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

English : Fluent

French : Bilingual

Arabic : Native

Main courses

Machine learning, Applied Data Analysis, Algorithms, Stochastic models, Probabilities and statistics, Introduction to database systems, Functional programming, Computer networks, Computer Architecture

PROFILE

I'm a 22 years old master student at EPFL (École Polytechnique Fédérale de Lausanne) in the field of Data Science, with a keen interest in algorithmic and machine learning.

Ambitious and willing to learn, 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

- *Minor in **Management, Technologies and Entrepreneurship***

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**)