

Charles Beauville

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EDUCATION

École Polytechnique Fédérale de Lausanne (EPFL)

Msc in Data Science with a minor in Management, Technology and Entrepreneurship

- Relevant courses : Machine Learning, Applied Data Analysis, Statistics for Data Science, Principles of Finance

Lausanne, Switzerland

September 2021 - Present

École Polytechnique Fédérale de Lausanne (EPFL)

Bsc in Computer Science and Information Systems

- Relevant courses : Probability and Statistics, Numerical Methods for Visual Computing and Machine Learning, Intro to ML, Internet Analytics

Lausanne, Switzerland

September 2018 - July 2021

PROJECTS

Monoloco

VITA Lab EPFL

- Real time activity detection and cyclist intention recognition
- Social distancing estimation with a webcam
- Using OpenPifPaf for pose estimation
- The main goal of this project was to improve autonomous driving
- Written in Python with PyTorch

Bouldering problem

MLO Lab EPFL

- Move sequence detection on bouldering problems based on videos
- Worked with the Swiss National Climbing team
- Pose estimation with OpenPose
- Move sequence detection with custom algorithm and clustering
- Written in Python, dynamic visualization

EXPERIENCE

Flower Labs

Data Scientist

- Developing the open-source Flower framework for federated machine learning
- Implementing academic papers using Flower (FedAvg, Fedprox...)
- Working with Python, PyTorch, TensorFlow and various deployment tools

Hamburg, Germany (Remote)

November 2022 - Present

Arcanite

Deep Learning Intern

- Log based anomaly detection using state-of-the-art NLP techniques
- Deep learning applied to cybersecurity
- Adapting academic research about log based anomaly detection for use in the industry

Puidoux, Switzerland

July 2022 - September 2022

Techspark Academy

Python Instructor

- Teaching machine learning and Python to kids and teenagers
- Dispensing weekly online video classes

Lausanne, Switzerland

June 2022 - Present

Helvet Advisors

Full-stack Developer

- Development of a web application used by clients to track their assets and manage their estate
- Programed the backend with PHP using Laravel and the frontend with Vue.js
- Made data analysis and visualization possible from a database established with file imports (csv files)

Geneva, Switzerland

May 2021 - May 2022

Rod Garage

Contract Engineer

- Working on the first electrified Porsche 993 prototype
- Designing the CAN bus communications scheme
- In charge of programming the car's MCU in C and integrating the different subsystems

Oron, Switzerland

March 2021 - September 2021

EXTRACURRICULAR ACTIVITIES

LUC Rugby

Player

- First Swiss Rugby League team
- Playing lock (second row) or flanker (third row)

Lausanne, Switzerland

September 2019 - Present

Google

Hashcode 2020

- Participated in the EPFL cluster for this coding competition
- Finished in the top 2.5% worldwide with my teammate

Lausanne, Switzerland

February 2020

PolySports

Vice-President

- Head of communications
- Managed a team of 10 people
- Organized a sporting event for more than 1500 students

Lausanne, Switzerland

July 2018 - July 2020

Various jobs

Contract work

- Retripa SA (2019), worked in a recycling factory
- LVMH (2017, 2018, 2019), worked in general services
- Indosuez (2018), worked in general services

Crissier, Switzerland/Paris, France

February 2017 - August 2019

SKILLS AND INTERESTS

Languages

French (native), English (fluent), Spanish (intermediate), German (basic)

Computer

Scala, Python, TensorFlow, PyTorch, Numpy, Spark, Java, C,C++, Rust, SQL, AWS, Docker, Laravel, Angular, Django, PHP

Interests

Woodworking, electronics, swimming (High School French Open finalist), martial arts, speedcubing