

Marius Lhôte

Curriculum Vitae

Lausanne, Switzerland
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Autek



Education

- 2021–Present **Bachelor in Communication Systems, EPFL, Lausanne, Switzerland**
Expected Graduation: 2025
- First-year grade average: 5.43/6
 - Relevant coursework: Algorithm, Computer Systems, Introduction to Machine Learning, Numerical Methods for Visual Computing and Machine Learning, Software Construction.

Academic Projects

Machine Learning Projects, *Introduction to Machine Learning*

- Implemented in a team of 3 a linear regression, a logistic regression, a knn classifier from scratch in Python using NumPy.
- located centers and classified the Stanford Dogs dataset with an accuracy of 87%.
- Implemented in a team of 3 a MLP, a CNN and a ViT in Python using PyTorch.
- classified the Fashion MNIST dataset with an accuracy of 90%.

Image File System, *Computer Systems*

- Implemented in a team of 2 a file system in C that stores images.
- Implemented a Server-Client architecture to store and retrieve images.
- learned about man pages, Makefiles, software development on Linux, and HTTP.

Copy of flightradar24, *Pratique de la Programmation Orientée Objet*

- Implemented a copy of flightradar24 in Java using JavaFX in a team of 2.
- learned about the Observer pattern, the MVC pattern, and how to use JavaFX.
- learned how to use the OpenStreetMap API to display a map.
- optimized the code to process planes data faster than real-time.

Personal Projects

Game of Life in GO

- Implemented Conway's Game of Life in GO using the Fyne library.
- Implemented an infinite grid that can be scrolled and zoomed.
- learned to write code and think about the architecture of the code without guidance.

Associative Experience

- November 2023–Present **Sponsorship Manager, EPFL Nuit de la Magistrale**
- Secured sponsorships worth over CHF 20'000 increasing the event's budget by 10%.
 - wrote a mailer in Python to automate the sending of personalized emails to sponsors.
 - sent 1000 personalized emails to potential sponsors and received a 10% response rate.

Teaching and Peer Support Experience

- September 2023–December 2023 **Mentor, EPFL**
- was responsible for 13 first-year students.
 - Provided guidance and support to help students adapt to university academic life.
 - Organized mentoring sessions to help students with their coursework.
 - Organized and gave a course on how to use Git to 100 students.
- February 2024–June 2024 **Teaching Assistant, MAN - Informatique et Calcul Scientifique, EPFL**
- I was the only teaching assistant in a room of 10 students.
 - Helped students with their homework during every exercise sessions.
 - Responded to 20% of the students' questions on the course forum.

Skills

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|-----------------------|---|
| Programming Languages | Python, Scala, Java, GO, C |
| Frameworks | PyTorch, NumPy, Matplotlib, Fyne, JavaFX, smtp lib |
| Tools | Git, Jupyter Notebook, Google Colab, yaml, Latex, Linux |

Languages

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|---------|--------|
| French | Native |
| English | Fluent |