

Matthias Cremieux

Personal Github: <https://github.com/Mattcrmx>
Pro Github: <https://github.com/matthiasmindee>
Rootme (top 4%) <https://www.root-me.org/xcrm?lang=fr>
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Software engineer with a focus on production topics revolving around Deep Learning. Graduate of a MSc in executive engineering at MINES ParisTech and a MSc at Sorbonne university in Stats and ML. I'm extremely interested in OSS, low-level software engineering, infosec and computer science.

Education and qualifications

- 2017 – 2021 **MINES Paristech**, member of PSL University, Engineering course - 3rd year, Master of science in Engineering, Option : *Digital engineering of complex system (Data science)*.
- Computer science, Statistics, optimization, Economy, labour law
- 2020 – 2021 **Sorbonne University** , (ex-UPMC), MS - Maths and Computer science.
- Advanced Machine learning And deep learning, Reinforcement Learning and advanced Deep Learning, Computer vision
- 2017 **Success of the competitive exam at Ecole des MINES**, Preparatory class at Lycée Charlemagne PCSI/PC*.
- 2015 **Scientific Baccalaureate**, with highest honors, Maths, Physics, Biology.

Experience

- 2021 – Now **Mindee**, *Software Engineer in Machine Learning*.
(2+ years)
- Co-Development of a distributed computing library based on Directed Acyclic Graphs (<https://github.com/mindee/tawazi>)
 - Development and optimization of a thread-safe inference framework for deep learning models in Python. Small experience with Cython.
 - Deep learning model RAM and computation time optimization (Tensorflow, ONNX) on various hardwares.
 - Deployment of applications with Kubernetes, Spinnaker and OpenLens.
 - Troubleshooting of performance issues (Flamegraphs, ptrace, strace, perf...), memory and file descriptor leaks (C).
 - Infrastructure and Deep learning models load testing (Locust, custom framework)
- 2021 **Graphène Advisory - Beijaflore group**, *Data Scientist Intern*, Research and Development on Anomaly detection with unstructured logs.
(6 months)
- Siamese networks approach for similarity-based learning, in real time of streaming log events parsed with state-of-the-art parsers.
- 2020 **Schlumberger Doll Research**, *Computer vision research Intern*, Applying Active learning techniques on the topic of semantic segmentation.
(6 months)
- Built a pipeline for automatic interactive Active Learning.
- 2019 **PEAT GmbH**, *Data scientist intern*, Machine learning for a recommendation system from weather data and plants classification using deep learning.
(6 months)
- Built a labelling tool for the weather data, and performed supervised learning for the farm recommendation system.
 - Ornamental plants classification with deep learning.
- 2018 **BATEG**, *Assistant construction site supervisor*.
(1 month)
- Managed a team of several people and assisted various technicians in their work in the office in charge of the structure

Computer skills and languages

Confirmed	PYTHON, L ^A T _E X,		
Intermediate	BASH, DOCKER, KUBERNETES, GDB, GUNICORN, HASHCAT	Fluent	English - C1 (TOEFL 114/120)
		Intermediate	Russian - TRKI (B1 level)
Notions	RUST, C, JAVASCRIPT, JAVA, GHIDRA, WIRESHARK		

Miscellaneous

- Student union**
- Active member (600+ students, budget of \$100k)
 - President of a student organization (150+ students)
- Sports**
- TENNIS : 15 years of on and off practice. Often competed with MINES Paristech. RUGBY : 1 year of practice. Participated to several competitions with MINES Paristech.
- Cultural activities**
- Classical guitar : 6 years of practice ; Bass Guitar: 3 years of practice. Part of the cinema club of MINES Paristech for 3 years