

MATTHIEU OLEKHNOVITCH

STUDENT AT ECOLE POLYTECHNIQUE

CONTACT

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Paris, France

SKILLS

- Python - Java - JS - C++
- Pytorch - Keras - Sklearn
- Dev Web (React, Django, php)
- SQL, Redis, DataBricks

LANGUAGES

French - Native
English - C1 or above (107/120 TOEFL)
German - B2
Russian - A2

PROJECTS

LLM HACK - Paris 2024

Developped an autonomous agent that can explore the web to find accurate data, pack it and serve it with a personalized API. Worked with tutors from **Mistral AI** and **HuggingFace**

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Digital Services (h)Acked - Brussels 2024

Developped a RAG architecture based on LLMs to serve API documentation from scrapped data. Computed researches on french HPC 'Jean Zay'

IPPMED Hackathon - Lung Cancer detection - 2023

Team research project on computer vision. Developed and trained deep learning models for tumor cells detection. Computation realised on **Telecom Paris** supercomputer (3.5Pflops/s)

EDUCATION

ECOLE POLYTECHNIQUE (PALAISEAU, FRANCE)

Diplôme d'ingénieur (Master of Advanced engineering) **2021 - Present**

Majoring in Computer Science - GPA 3.53/4
Coursework include : Foundations of Machine learning, Machine and Deep Learning, Database Management Systems, Data Visualization

LYCEE PASTEUR (NEUILLY, FRANCE)

CPGE - Preparatory classes **2019 - 2021**

Majoring in Advanced Engineering and Science - GPA 4.0/4
Coursework include : Mathematics, Physics, Chemistry, Computer Science

LYCEE NOTRE DAME (BOULOGNE, FRANCE)

Baccalauréat, High School Diploma with High Honours **2016 - 2019**

Coursework include : Mathematics, Physics, Chemistry

WORK EXPERIENCE

UNIVERSITY OF LUXEMBOURG (LUXEMBOURG)

AI Research Intern - Securiy and Trust - SERVAL Team **Apr. 2024 - Sep. 2024**

Specialized in Reinforcement Learning techniques to enhance time series classification and forecasting metrics. Developed an advanced iteration of the AutoAugment algorithm for large-scale data augmentation based on mathematical optimization.

WORLDLINE (LYON, FRANCE)

AI Researcher Intern - LABS Department **Jun. 2023 - Sep. 2023**

Spearheaded research on AI-driven code reviewing for proactive issueforecasting in large-scale programming projects. Devised and executed comprehensive analysis processes to optimize project outcomes and data retrieval.

BRIGADE DE SAPEURS-POMPIERS DE PARIS

Battalion Chief - Paris-13 Fire Department **Oct. 2021 - Apr. 2022**

Commanded emergency operations as a French army officer, leading teams of up to 15 personnel. Thrived in high-pressure environments, managing and aiding victims during critical emergencies.

REWARDS

Excellence Scholarship

2019 - 2021 - Delivered by the french Ministry of Education

International Chemistry Olympiads

2020 - Ranked 8th in France

France Defence ministry bronze medal

2022 - Delivered by the french army ministry by way of exception

Outstanding investment award

2023 - Delivered by EcolePolytechnique for the investment in the associative life