

LUKA LAFAYE DE MICHEAUX

Dual Master's in AI & Engineering | Canadian-Swiss-French | Interested in deep learning

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SKILLS



LANGUAGES

French: Native

English: Fluent / C2

Mandarin Chinese: HSK2

Spanish: Intermediate / B2

PROJECTS

- Segmentation guided diffusion for realistic lung scans generation (August 2024)
- Deep Learning Lung CT-Scan Segmentation (February 2025)
- LlamArt: on-device RAG + YOLOv11 art detection (February 2025)
- GNN based movie rating prediction (November 2024)
- AI resume parsing with SpaCy NER model fine-tuning (April 2025)
- CrypTools e-learning software for cryptography (January 2020)

HOBBIES

Running - Finished 1st at Bike & Run 2022

Exploring cultures: Cuba, Cambodia, China, New Zealand, Spain, Belgium, Italy & The Netherlands - Lived in: Australia, Canada, France, US

Soccer, badminton, magic, climbing & calisthenics (10 years)

EDUCATION

Master of Science in Artificial Intelligence | Université PSL

Sep 2024 – Sep 2025

Paris /

- Ranked 1st at **Privacy Hack AI hackathon**. Our team won 3000 €, and designed Parseling, an app enabling medical clinics to leverage predictive AI on patient data without compromising privacy using FHE.

Engineering Curriculum + exchange | Institut Polytechnique de Paris (Telecom SudParis)

Aug 2022 – Sep 2025

Paris /

- Ranked 1st/147 at **Kaggle competition** during my AI engineering exchange program (Sep 2023 – Dec 2023, at **Polytechnique Montréal**).

Intensive preparation for the competitive entrance exams to leading French engineering schools | Sainte-Geneviève

Sep 2020 – Jul 2022

Versailles /

Baccalauréat S (U.S. equivalent high school plus one year) | LCS

Sep 2018 – Jun 2020

Sydney /

- Ranked 1st in Australian school for three years. French Baccalauréat with highest honors (19,92/20)

PROFESSIONAL EXPERIENCE

AI R&D intern | Arteris IP

May 2025 – Nov 2025

Sophia-Antipolis /

- Designing graph-conditioned diffusion models for network on chip topological optimization. **Paper in progress - target ICLR 2026**

Machine learning intern | Horiana

June 2024 – September 2024

San Francisco /

- Developed an **LLM-based AWS app** to automate the generation of medical papers using statistical studies.
- Ranked 1st at **SWE-Bench Hackathon** - Performance Track. I developed a tool which automatically resolves GitHub issues and scored best open source performance on SWE-bench Lite (30.26%) on 23/07/2024.

Software engineer intern | JustAI

Jun 2023 – Jul 2023

Paris /

- Worked on **BioFeed** - Trained CNNs for plant classification and developed ESP32-based sensor kits for agricultural crop monitoring.

Vice president & Head of AI Division | KRYPTOSPHERE®

Oct 2022 – Oct 2023

Versailles /

- Leadership & time management skills:

- Ranked 1st at **Hackathon eau et numérique**. Our team won 5000 €, and successfully designed an app to track & predict hydrology indicators in France using Deep Learning.
- Ranked 3rd at **D4Gen AI Hackathon**. Our team won 2500 €, and used AlphaFold to discover a protein able to protect RNA in cells.