

LUKA LAFAYE DE MICHEAUX

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

@ luka.lafayedemicheaux@psl.eu 📍 Paris, France

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SKILLS

Python

GNN

Git

Bash

Deep Learning

Keras

PyTorch

TensorFlow

Pandas

LangChain

LangGraph

LLM

AWS

Machine Learning

Scikit-learn

Reinforcement Learning

Natural Language Processing

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.