

# Etienne Boisson

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## EDUCATION

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### EPFL & Yale

*MSc Thesis*

*MSc of Data Science, 5.5/6.0 GPA*

### EPFL

*BSc of Computer Science / Communication Systems, 5.1/6.0 GPA*

*New Haven, USA, 2024-2025*

*Lausanne, Switzerland, 2022-2024*

*Lausanne, Switzerland, 2018-2022*

## EXPERIENCES

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### MSc Thesis

LIGHT Lab, EPFL & Yale

October 2024 – April 2025

Master thesis on the OpenMeditron project initiative, enhancing the safety, ethics, instruction-following and conversation capabilities of Meditron LLMs through fine-tuning, synthetic data training and evaluation.

Adaptation of the Meditron Protocol to various foundation models on a complex infrastructure.

Team size: 1-10. Skills: PyTorch, Transformers, SFT and PO training methods, Cluster & GPUs

### Research Project Management

LIGHT Lab, EPFL

October 2024 – April 2025

Managing small group of students, leading meetings and organise tasks for the projects advancement.

Team size: 2-3. Skills: Project Management, Communication, Planning

### Intern at the International Committee of the Red Cross

ICRC

July 2024 - August 2024

Mutli-agent architecture, enhancing chat capabilities of LLMs for low resource settings at the Digital Health department. Team size: 1-2. Skills: PyTorch, Transformers.

### Research Engineer Student

MLO Lab, EPFL

September 2023 – July 2024

Developing the next iteration of Meditron-70B, a medical LLM assistant. Creation of medical & scientific datasets (data scraping, OCR, processing, and synthetic data generation). Designing a multi-agent pipeline, adapter fine-tuning (QLoRA), and reinforcement learning with human feedback.

Team size: 10. Skills: PyTorch, Transformers, Synthetic data generation, Finetuning

### Startup: Founder & Founding Engineer

Deal'icious (Blaze EPFL)

September 2023 - August 2024

Product: empowering individuals to make healthier food choices without compromising on affordability or convenience. Responsible for the early vision, architecture and technological decisions.

Team size: 3. Skills: Project Management, Problem-Solving, Decision-Making

### AI Engineer Intern

Synature

July 2023 – August 2023

Data processing and Machine learning / Deep Learning methods applied on audio data to monitor wildlife.

Team size: 1-3. Skills: Python, Tensorflow, PyTorch

## PUBLICATIONS

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**Llama-3-Meditron:** An Open-Weight Suite of Medical LLMs Based on Llama-3.1 at GenAI for Health, AAAI 2025

High-performing open-weight medical LLM suite built on Llama-3.1, pre-trained on curated texts, fine-tuned with diverse instructions, and enhanced by MediTree for state-of-the-art medical QA and benchmarks. Under review.

**GPoet:** a Language Model Trained for Rhyme Generation on Synthetic Data at LaTeCH-ClfL 2023

Fine-tuning a GPT-2 model to address text constraints in the context of poem generation.