

MAXIME ROCHKOULETS

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EDUCATION

KU Leuven [Katholieke Universiteit Leuven] • Leuven, Belgium September 2024 – May 2026
Master of Engineering • Computer Science (Artificial Intelligence)
Currently enrolled in the first year of my master's curriculum, specializing in AI and Machine Learning.

University of Bordeaux • Bordeaux, France September 2021 – May 2024
Bachelor of Science • Computer Science Rank: **7/166** | Grade: 14.55/20
Bachelor obtained with honours, completed an exchange in Dublin during my final year.

High School • France September 2018 – July 2021
French General Baccalaureate **Honours**
Baccalauréat général obtained with honours, with Mathematics and English as my chosen specialty streams.

RELEVANT COURSEWORK

Data Structures & Algorithms, Computability & Complexity, Compilers, Networks, Cryptography & Number Theory, Object-Oriented Programming, Computer Architecture, Operating Systems, Probabilities & Statistics, Machine Learning, Machine Translation, Linear Algebra, Cloud Computing, Parallel & Concurrent Programming

INTERNSHIPS

LaBRI [Bordeaux Computer Science Research Laboratory] May 2024 – July 2024

- My second research internship in this laboratory. This time for a longer period and focusing on a project at the crossroads of Software Engineering and Deep Learning. My work fitting inside the broader objective of finding ways to train and use Large Language Models more effectively for Software Engineering.

LaBRI [Bordeaux Computer Science Research Laboratory] January 2024

- Internship during which I had the opportunity to discover many areas of computer science research inside the PROGRESS research group such as Software Engineering, Machine Learning or Distributed Networks. Among other things, I developed a small distributed system on top of the LoRaWAN communication protocol in C and Python.

PROJECTS

Work done on my free time or for university (see mrochk.github.io/projects.html for more).

Neural Network – C

- Feedforward neural network & other machine learning models (such as linear or polynomial regression) implemented from scratch in pure C, without using any external library.

Market Exchange – Go

- Market exchange simulation. The matching engine implements the Price/Time algorithm and an API allows different users to place and execute orders.

MMA Outcomes Predictions – Python (PyTorch)

- Machine Learning project for which the goal was to train and assess the performance of models predicting the outcomes of MMA fights. It required a lot of data preprocessing and taught me how to train and evaluate models.

3AC Compiler – Java

- Project made in the frame of university, where I had to build a compiler taking an hypothetical programming language and converting it to three-address code for a given interpreter.

GENERAL SKILLS

- Spoken Languages: English** [IELTS Academic: Band Score **7.5**, February 2024], **French** and **Russian**.
- Communication:** Can easily fit into any group, I am used to work with different people on multiple projects.

TECHNICAL SKILLS

- Programming Languages:** C, Python, Go, OCaml, Julia, Java, C++, Haskell, JavaScript.
- Other Computer Experience:** Linux, Git, PyTorch, NumPy, Pandas, Bash, Excel, \LaTeX , HTML/CSS.

EXTRA CURRICULAR ACTIVITIES

- Volunteer Work:** When I was studying in France I used to help kids with their homework after school.
- Soccer:** Played soccer with various teams for more than 10 years, competed in many competitions and tournaments in France, now playing for my university in Ireland.
- Chess:** Member and player in my university's chess club.
- Jobs:** Worked during every holidays since my first year of high-school, first in the fields then in different restaurants and bars as a bartender and waiter.
- Interests:** Artificial Intelligence, French & Russian Literature, Philosophy, Finance, Blockchain, Chess, Hiking.