

LUCAS BERTINCHAMP

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OBJECTIVE

Final-year computer science student seeking a 4-month internship to complete my degree. I'm eager to apply my skills in AI, machine learning, and software development to real-world projects. My goal is to gain practical experience and contribute effectively to a dynamic team.

EDUCATION

École Polytechnique de Montréal - Montréal, Canada Aug 2023 - Present

Double degree : Master of Engineering in Computer Science (Current GPA : 3.94/4)

École des Mines de Nancy - Nancy, France Sep 2021 - July 2023

Mines Civil Engineering Degree - Generalist engineering school with a solid scientific core and a specialisation in computer science.

Lycée Faidherbe - Lille, France Sep 2019 - July 2021

CPGE - A 2-year course to prepare for the national entrance examinations to France's leading engineering schools. Majors in Advanced and Applied Mathematics, Computer Science and Physics.

EXPERIENCE AND PROJECTS

AI Methods and Algorithms Sep 2023 - Dec 2023

École Polytechnique de Montréal

Montréal, Canada

Creation of an intelligent agent capable of playing the Abalone board game. Implementation of the Minimax, Alpha-Beta Pruning and Monte-Carlo Tree Search algorithms and development of search heuristics.

Individual scientific project in robotics and artificial intelligence Sep 2022 - June 2023

Techlab Mines Nancy

Nancy, France

Development of algorithms based on reinforcement learning to enable a quadruped robot to move autonomously towards a target while avoiding obstacles. Work carried out in simulation but also on real robots.

Collaborative project : Animation and video game technology Jan 2023 - May 2023

ARTEM Campus

Nancy, France

Creation of a "Mario like" video game on Unity in collaboration with students from the campus art and design school. Implementation of a Game Design Document and development of all aspects of a game.

Operator Internship Jan 2022 - Feb 2022

Descaform

Liévin, France

One month internship to discover the working environment in a wood processing workshop.

Missions: Machine work, handling, quality control / Skills: Teamwork, listening, decision-making

SKILLS

Languages

French : Native, English : IELTS C1

Programming Languages

Python, HTML/CSS/JS (NextJS), SQL, C#, Java

Development Environment

Google Colab, Jupyter Notebook, Linux, Unity, Unreal, Visual Studio, VSCode

Libraries/Tools

Keras, Matplotlib, NumPy, Pandas, PyTorch, Scikit-learn, Tensorflow

MISCELLANEOUS

- MOOC Project Management certification awarded by the École Centrale de Lille, France (December 2021)
- Participation to Advent of Code 2022 and 2023 : Solve 25 challenges of increasing difficulty, requiring a variety of computer skills to create efficient algorithms under time constraints. Available on my GitHub [here](#).