Robin Leman

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EDUCATION

McGill University May 2022

B.S. in Physics and Computer Science

Montreal, Canada

Overall GPA: 3.90/4.00

SKILLS

Programming Languages: C++, Java, Python, C#, C, Javascript, OCaml

Operating Systems: Linux, MacOS, Windows OS

Tools & Softwares: Unity, Unreal Engine 5, Perforce, Git, HTML, CSS, Bash

Languages: English, French (Bilingual)

Software Engineer Intern - Engine Team

WORK EXPERIENCE

The Coalition - Microsoft Xbox

May 2021 - August 2021

Vancouver, Canada

- Optimized Unreal Engine 5 through debugging tools and workflow improvements.
- Profiled new Chaos and Nanite technologies to measure their memory and time performances on Xbox and PC.
- Implemented physics based procedural collision volumes and Ragdoll states.

Ubisoft June 2020 - August 2020

Montreal Canada

Generalist Programmer

Montreal, Canada

- Designed a physics based buoyancy simulation algorithm in C++. Optimized it to real-time performances.
- Implemented visualization tools to improve testing and debugging workflows.

PERSONAL PROJECTS

Achilles % | 3D Physics Engine - C++

- Designed a real-time Physics Engine in an Entity-Component-System architecture.
- Implemented translational and rotational dynamics, collision detection and response, and softbody simulation for ropes and cloth.

Multithreaded Raytracer % | C++

- Designed a ray-tracer render engine from scratch in C++.
- · Optimized its performance using multi-threaded concurrent programming.

Meme Popularity Predictor % | Machine Learning - Python, Tensorflow

- Designed a Convutional Neural Network model to predict the popularity of a meme with a 65% accuracy.
- Took part in a 10 weeks machine learning "MAIS 202" bootcamp; implemented models like the Naive bayes, PCA or SVM models.

GetOut % | Ubisoft Competition - Unity3D Video Game - C#

- Published a Puzzle 3D platformer video game in a team of 8 in 10 weeks.
- Designed and optimized gameplay, 3Cs, Artificial Intelligence (State Machine) and networking for COOP and multiplayer.

VOLUNTEERING

GameDev McGill President (2021-Present), VP Internal (2020-2021), Member (2019-2020)

Leading a team of 10 executive members to organize events for 100+ members for a game development student association. Organizing McGame Jam, a 48h hackathon uniting 150+ hackers.

Red Cross | Volunteer (2021 - Present)

Emergency responder volunteer. Certified "Emergency First Aid CPR/AED - Level C".

Worldwide Funds For Nature (WWF) McGill | VP Communications (2019-2020)

Organized and promoted informational and fundraising events for the association.