- B.Sc. in Physics & Computer Science (GPA 3.57), University of Montreal, August 2017
- Multiple C++ projects and C++11, C++14, C++17 knowledge
- Experience with both Unity3D and Unreal Engine 4
- Passionate about optimizations, parallelism, and functional patterns
- Fast learner and excellent problem solving skills
- Excellent communication and teamwork (french & english)

#### **TECHNICAL KNOWLEDGE**

**Programming languages & technologies**: C++, C# , Go, Python, JavaScript, Unity3D, Unreal Engine, Angular, OpenGL, Redis, MongoDB, SQLite, Intel TBB, OpenMP

Operating systems: Linux, Windows

#### **ACADEMIC STUDIES**

B.Sc. in Physics & Computer Science (GPA 3.57)
University of Montreal

2013-August 2017

# **College diploma in Nature Sciences**

Cégep Édouard Montpetit, Longueuil

#### 2015

## **PERSONAL PROJECTS**

## Tetris automatic player (C++)

- Using std::async for multithreading
- Using Boost::fiber for inter-threads communication with Channels (Go-style)
- Using decorator pattern and C++11

## First Person Shooter prototype (C#, Unity3D)

2019

2019

- Heavy use of 3D vector maths
- Automatic code generation to import game data from Google Sheets

## Mandelbrot Set Generator (C#, Unity3D)

2019

• Surface shader implementation for GPU acceleration

## Al distributed computing (Python, Go)

2019

- Using CoachRL library for the reinforcement learning
- Using Kubernetes for the scaling

## Local multiplayer mini-game (C++)

2017

- Game engine implementation using polymorphism & template metaprogramming
- Graphics & sounds using SFML library

# Breakout game with OpenGL (C++)

2016

- Using OpenGL for graphics and post-processing
- Shaders implementation with GLSL

#### **PROFESSIONAL EXPERIENCES**

#### **Game Developer**

December 2017 - September 2018

Riposte Games & Co.

- Backend development with NODE.JS, MongoDB, Redis & Kubernetes
- Game tools development with Angular, ExpressJS
- Gameplay & UI development in Unity3D with C#

### **Game Developer**

August 2019 - April 2020

Mino Games

- Game development with Haxe
- Use of functional programming patterns
- Debug mobile game with Android Studio
- Support more junior employees with code reviews