

SOFTWARE DEVELOPER · GRAPHICS PROGRAMMER

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Education

Sherbrooke University Quebec, Canada

B.S. IN COMPUTER SCIENCE

Sep. 2012 - Aug. 2015

- Two A+ average GPA semesters
- Overall GPA of 4.06
- Classes for algorithms, computer graphics, artifical intelligence, parallel programming and functionnal programming

Skills

Programming C++, HLSL, GLSL, C#, Ruby, Python, Racket, Typescript

Graphics APIs DirectX 11, Vulkan, DirectX 12, OpenGL
Game Engine Unreal Engine 4, Unity3D, Godot, DromEd

Development Tools Visual Studio, Rider for Unreal Engine, Neovim, VS Code, RenderDoc, PIX, RazorCPU/GPU, CMake, GDB, Ninja, Git, Perforce

Languages French, English

Experience

Behaviour Interactive Ottawa, ON (Remote)

GRAPHICS PROGRAMMER

Jul. 2021 - Present

- Optimize code found in graphic pipelines, systems architecture and shader programs
 Apply changes to rendering logic found in Unreal Engine
- Gain experience with graphics on multiple platforms (PlayStation, Xbox, Switch)
- Gain experience with GPU profiling tools (RenderDoc, Razor, PIX)
- Port a game project with a custom engine and renderer to consoles

Behaviour Interactive Montreal, OC

Unreal Developer Nov. 2019 - May. 2021

- Write game logic and tools (using both C++ and Blueprints
- Ship a game project on a new and recent platform (Stadia)

Behaviour Interactive Montreal, OC

UNITY3D DEVELOPER

Jun. 2016 - Nov. 2019

- Write game logic for multiple systems (AI, Animation, UI, Backend)
- Ship two game projects on multiple platforms (Android, iOS, Steam)

Fuel Industries Ottawa, ON

UNITY3D DEVELOPER

Jul. 2015 - Jun. 2016

- · Write shaders for game with higher graphic complexity
- Develop game on Android and iOS platforms

Personal Projects _____

GPU BASED RAY TRACING ENGINE IN C++ WITH DIRECTX 11

- · Learning the inner workings of the DirectX 11 graphics API to communicate rendering commands to the GPU
- · Practicing writing some C++ logic to transfer data from the main memory to the GPU memory to create dynamic scenes
- Learning about how compute shaders can help getting better performance for the ray tracing process rather than implementing the full algorithm in pixel shader

VIDEO GAME PROJECT BASED ON THE BOARDGAME "SEQUENCE" USING UNITY3D

- · Learning to organize ideas and plan to complete a video game project with a small team of hobbyists
- Implementing a client/server architecture for multiplayer gameplay over the network from scratch with C# as a separate program
- Performing play test sessions with some people from outside the development team to gather feedback on how to improve the game's experience