Steven Lee

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EDUCATION

McGill University 2017 - 2021

Bachelors, Major in Computer Science, Minor in East Asian Studies

SKILLS

- Programming Languages: C#, Java, C++, C, SQL, Python, Ocaml, HTML/CSS, JavaScript, Lua
- Framework/Libraries: WebGL, Bootstrap, Three.js, OpenGL, Dash, Jfreechart, Plotly, NLTK, Vulkan
- Technologies: PostgreSQL, AWS DynamoDB, Firebase, Android, Git, Blender, Maya
- Game Technologies: Unity Engine, Twine, Unreal Engine, Godot Engine

PROJECTS

Antimony March 2020 - Present

A narrative focused 2D game made with Unity, worked on with four artists and one other programmer, being planned for release on Steam.

- Currently developing a dynamic inventory system that resizes visually based on the number of items held.
- Wrote gameplay features to take keywords from the dialogue tree and turn it into objects using C#.
- Developed interactivity of scriptable items with the game's environment using Unity's mouse system.

Infinite Burnside May 2020

First person pixelated horror Unity game with over 500 downloads on itch.io.

- Implemented a pixelation shader in HLSL and used Occlusion Culling to improve the frame rate by 40%.
- Implemented efficient enemy behavior using Finite State Machine Design Patterns.
- Developed a Procedural Stairs Generation system with randomized game events.

No More Voxels! December 2019

Developed a Rail shooter game using procedural generations.

- Profiled and optimized game performance by 20% using Unity Profiler and GPU instancing.
- Implemented procedural terrain generation with Perlin Noise.
- Developed a mesh decomposer system using C# to turn objects into primitive shapes when hit.

JetBlue Sentiment Analysis:

September 2019

Data visualization web app written for Yale Hacks.

- Created a website using HTML/CSS and Python.
- Provided accurate visualization of data by building graphs with **Dash** in a web application.

LEADERSHIP AND ACTIVITIES

McGill Game Development Society

March 2019 - Present

VP-Game Jam

- Currently leading a team of 14 volunteers to organize McGame Jam, a 48-hour game development hackathon, attracting over 150 hackers across Quebec.
- Gave a public talk to teach beginner artists in using 3D modeling software and low polygonal design techniques.

McGill Bio Design

December 2019 - August 2020

Software Team - Glucose Monitoring System

- Developed an Android Application alongside a team of software developers using Firebase as the application's real time database to allow glucose monitoring in 30 children.
- Allowed wireless data transmission of glucose levels from an Arduino to the database with Python.
- Developed the application's backend in Firebase to process transmission of data from glucose sensors.