

Steven Lee

COMPUTER PROGRAMMER · COMPUTER SCIENCE MAJOR - MCGILL UNIVERSITY

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Skills

Programming Languages C#, Java, Python, SQL, JavaScript, HTML/CSS, Lua, C++
Tools and Technologies Unity Engine, PostgreSQL, OpenGL, ImGui, Git, JUnit4, Blender
Languages English, French, Korean (trilingual)

Work Experience

Undergraduate Research Assistant

Montreal, Canada

MCGILL UNIVERSITY

Apr. 2021 - Aug. 2021

- Developed visual tools in Python using Tkinter, Dash and NumPy to improve workflow of data scraping and visualization.
- Scraped data from thousands of Victorian era newspapers using OCR Tesseract, and classified key themes using LDA Topic Modelling, achieving an accuracy rate of 68%.
- Created Twine tutorials and examples for an undergraduate class in development.

RA - Game programmer

Montreal, Canada

MCGILL UNIVERSITY

Dec. 2020 - Apr. 2021

- Developed a VR web application using PannellumJS, PixiJS and HTML/CSS, while improving framerate performance by 31% using Chrome's profiler.
- Designed and programmed the UI/UX, and implemented gameplay features for a Unity game in C#.

Projects

Keyframe Animation Tool

3D ANIMATION TOOL WRITTEN IN JAVA AND OPENGGL

- Designed a tool in Java using hierarchical modeling to parse data from XML and render it through the graphics pipeline.
- Implemented the ability to freely move joints for shapes in real time.
- currently working on using Bezier surfaces, to generate more complex models in various file formats.

Ubisoft Game Labs - Besunder

GAME MADE WITH THE UNITY ENGINE FOR UBISOFT'S COLLEGIATE 10-WEEK GAME DEVELOPMENT COMPETITION

- Optimized the game's performance by 25% using Unity's profiler.
- Designed and wrote shaders in HLSL to implement reflections and simple cell shading.
- Created 3D models and animations using Blender.

Infinite Hall

A HORROR GAME MADE IN UNITY, WITH OVER 500 DOWNLOADS ON ITCH.IO

- Designed enemy behaviour with random heuristics using State Machine design pattern.
- Created a Procedural Stairs Generation system featuring randomized game events in C#.

Antimony

GAME CREATED USING THE UNITY ENGINE FOR THE GLOBAL GAME JAM, IN A TEAM OF 6 STUDENTS.

- Developed interactivity of scriptable items with the game's environment using Unity's Ray Casting and mouse system.
- Implemented a dynamic inventory system capable of taking in keywords from the dialogue as scriptable objects.

Education

McGill University

Montreal, Canada

BACHELORS MAJOR IN COMPUTER SCIENCE - MINOR IN EAST ASIAN STUDIES

Sep. 2017 - Expected Nov. 2021

Leadership

GameDev McGill

Montreal, Canada

VP GAMEJAM

Apr. 2020 - May 2021

- Served as the head organizer of McGame Jam 2021, a 48-hour game development hackathon, attracting over 155 developers across North America.