William Liu

Phone: (647)-639-2698 | Email: yuxuanliu@live.ca | Portfolio: https://mast0rbill.github.io/

SKILLS

• Highly experienced in **object-oriented programming** and **game development**:

C# & Unity	Java & Android	C & C++	Python	HTML/CSS
5+ years	5+ years	2 years	Proficient	Proficient

- Experience with functional languages, style, and paradigm, including Lisp.
- Worked extensively with VR/AR, including Hololens 2, Magic Leap One & Oculus Quest.

EXPERIENCE

Augmented Reality Developer

APR 2019 - SEP 2019

SPATIAL SYSTEMS INC. - NEW YORK, NY

https://spatial.is

- Contributed to porting Spatial to Oculus Quest using Android Studio & Unity3D.
 - Created an Android WebRTC solution, enabling use of screenshare & webcam.
 - Implemented a native Android browser, allowing for live document editing.
 - o Prototyped and developed features within 7-day deadlines.
- Worked on the Spatial Magic Leap One application using Unity3D and LuminSDK.
 - Designed and implemented object manipulation system suitable for ML controller.
- Developed the Spatial **Hololens** software, creating new user interfaces and fixing bugs.

Software Lead SEP 2015 - JUNE 2018

5428 BREAKING BOTS - MARKHAM, ON

https://breakingbots.weebly.com

- Wrote camera relay software and input handling for remote-controlled robot in C++.
- Taught and supervised 11 members of the Software subteam.

PROJECTS

Paxitium - FULL-SCALE MULTIPLAYER SURVIVAL GAME https://www.indiedb.com/games/paxitium

- Led software development and created 3D art for the game using C# and Blender.
 - Contributed "20000 lines of code and 400+ commits to the game repository.
- Contributions include fully authoritative multiplayer, in-depth inventory & in-game Al.
- The game reached #1 on IndieDB in July 2017.

Frog-go - MOBILE GAME https://play.google.com/store/apps/details?id=com.lutonstudios.froggo

Developed an arcade mobile game for Android using Google AdMob API in Unity3D.

Machine Learning - AI NEURAL NETWORKS https://github.com/mast0rbill/machine-learning

• Implemented language neural networks, improving to 91% accuracy via back-propagation.

EDUCATION

University of Waterloo - BACHELOR OF COMPUTER SCIENCE (CANDIDATE) SEP 2018 - MAY 2023

• Current student. Cumulative GPA (as of August 2019): 4.0/4.0