

William Liu

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

SKILLS

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

C#, Unity3D	Java	JavaScript	C/C++	Python	HTML/CSS
5+ years	5+ years	2 years	Experienced	Workable	Proficient

- Adept at using **industry-standard tools** to enhance productivity, including:
 - Git, Visual Studio, Eclipse, PyCharm, Photoshop, Blender, Linux OS.
 - Experience with **functional languages**, style, and paradigm, including Racket/Lisp.
 - Trilingual in English, French, and Mandarin.
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PROJECTS - WEB PORTFOLIO | <https://mastOrbill.github.io/>

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

- Led software development and created 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 system, in-game AI.
- Game reached **#1** in popularity on IndieDB in July 2017.

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

- Arcade mobile game for Android created using Unity3D published on Google Play.
- Features use of APIs such as Google Admob and Google Play Game Services.

Machine Learning - AI NEURAL NETWORKS | <https://github.com/mastOrbill/machine-learning>

- Implemented neural networks to solve problems in Java using back-propagation.
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EXPERIENCE

Programmer/3D Artist - Luton Studios

MAY 2015 - PRESENT

- Programmed in small indie game development team (see Paxitium above).
- Participated in development and team discussions almost everyday after school.

Software Head - FRC Robotics (5428 Breaking Bots)

SEP 2015 - JUNE 2018

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

Lifeguard and Swim Instructor - City of Markham

JUNE 2016 - JAN 2017

- Supervised swimmers as a lifeguard and taught classes on behalf of City of Markham.
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EDUCATION

University of Waterloo - Candidate for Bachelor of Computer Science

SEP 2018 - MAY 2023

- Current student. Cumulative Average (as of January 2019): 90.4%