

Joshua Green

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EDUCATION

University of Waterloo, Ontario

2029

Honours Co-op - Computer Science

PROFESSIONAL EXPERIENCE

Freelance Roblox developer

2018 - Present

Scripter, Animator, VFX artist

- Completed over 20 commissions for various game studios
- Often scripted systems involving data saving, client-server communication, artificial intelligence, user interface, and visual effects.
- Key Skill Applied: **Modularization**

PROJECTS & EXTRACURRICULAR

Machine Learning Research Paper

March 2023

- Wrote a 4000-word essay comparing the effectiveness of **Artificial Neural Networks** and **Random Decision Forests** at binary classification to obtain my IB diploma
- Applied technologies such as **NumPy**, **seaborn**, **matplotlib**, **scikit-learn**, and **TensorFlow**

2048 AI

April 2024

- Applied reinforcement learning to develop an AI designed to play the game 2048 through proximal policy optimization
- Utilized libraries such as **Open AI Gymnasium**, **stable_baselines3**, **Pygame**, **NumPy**

AI workshop

December 2023

- Ran a 3 day workshop, with the assistance of my high school's computer science club, teaching peers about modern AI concepts and applications such as diffusion, computer vision, and **neural networks**

SKILLS

Programming languages: Python, Lua, C++

Other Computer Software: Jupyter Lab, Google Colab

Soft Skills: Collaboration, Leadership, Communication, Planning