Joshua Green

647-619-3090 | j33green@uwaterloo.ca | linkedin.com/in/josh | https://jjgreen0.github.io/

EDUCATION

University of Waterloo — Waterloo, Ontario
Honors Co-op - Computer Science — *2024 – 2029*

EXPERIENCE

Machine Learning Engineer — May 2025 – August 2025
HubHead Corp. — *Markham, Ontario*
- Developed features for an application which extracts data from manufacturing plates and tags
- Developed an application for extracting tabular data from pdfs and images
- Developed a source attribution system for a RAG application

Undergraduate Research Assistant — February 2025 – Present
University of Waterloo — *Waterloo, Ontario*
- Worked under Jimmy Lin in the Castorini research group for information retrieval
- Co-authored BrowseComp-Plus under Xueguang Ma, a dataset for reasoning based retrieval
- Contributed to documentation and code for Anserini and Pyserini projects

PROJECTS & EXTRACURRICULAR

Freelance Roblox Developer | *Scripter, Animator, VFX artist* — 2018 – Present
- Completed over 20 commissions for games with 1,000+ active players
- Scripted systems involving data saving, client-server communication, artificial intelligence, user interface, visual effects, and vehicle dynamics
- Key Skills Applied: Modularization, Abstraction, Scalability, Reusability

WAT AI Drilling Team | *XGBoost, Temporal CNN* — January 2025 – present
- Created machine learning models for forecasting drilling parameters based on well-bore data
- Contributed to stuck pipe forecasting sub-team

Machine Learning Research Paper | *NumPy, Seaborn, Matplotlib, Scikit-learn, TensorFlow* — 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

2048 AI | *Open AI Gym, stable baselines 3, PyGame, NumPy* — April 2024
- Applied reinforcement learning to develop an AI designed to play the game 2048 through proximal policy optimization, achieving a score of 1024

TECHNICAL SKILLS

Languages: Python, Lua, C, C++, Racket, HTML/CSS
Developer Tools: Git, Google Cloud Platform, VS Code, Jupyter Lab, Dr. Racket
Soft Skills: Collaboration, Leadership, Communication, Planning