

Projects

AmoangOus - amoangous.me - (7) - Discord bot + webapp to mute users

- Built discord bot using discord.js to keep track of players and their AmongUs colours in multiple servers, and change their mute status on command
- Built react.js webapp to communite with bot using socket.io
- Deployed on Digital Ocean VPS with nginx.

EyeGAN - (7) - M - Used DCGAN to create human eyes

- Collected and augmented images to create a high quality dataset of 1000 eves
- Used tensorflow to create GAN architechture, to create RGB human eyes

Robot XboxController - Q - Combined arduino with unity ml-agents to play a game

- Translated 1x1 coordinate grid positions to servo movements to control xbox joystick using an **Arduino**
- Trained reinforcement learning model using Unity ml-agents to balance a ball on a platform

Hackathons- Participated in numerous hackathons

- Hack The Hammer II- Built route safety calculator using the google maps API and scikit-learn
- Hack The Valley IV- Built a motion tracking system of animals with an esp32, firebase, and a JS webapp
- Massey Hacks 2020- Built a video summarizer. Pulled captions from API, then
 ran a summary algorithm to extract important parts, for python script to put
 together.
- Silly Hacks 2020- Built simple AmongUs discord bot that used http post requests and OCR. Morphed into the more elegant AmoangOus project

Education

Thornlea Secondary School- Secondary School

2018 - 2022

- **Clubs:** co-president of chess club, STEM team(pre-covid), robotics(pre-covid), chemistry club(pre-covid), computer club(pre-covid)
- Participated in all Waterloo contests. Scored 34 on senior CCC

Experience

Spirit of Math Schools- Assistant Teacher

Dec. 2018 - Current

• Led an extra help session, taught kids from all grades new math strategies, techniques and skills

The Steam Project- Counsellor

July 2020 - August 2020

Worked with young kids on 3d pens, cricut cutters, and other STEM topics

Skills

 $\textbf{Languages:} \ \ \textbf{Python, C++, Javascript, Git, Arduino, LATEX, HTML, CSS}$

Libraries: Tensorflow/Keras, Numpy, Pandas, Scikit-learn

Interests

Academic: Computer Hardware, Drones, Robotics **Other:** Badminton, Hockey, Piano, Cello, Curling