

Projects

PokeGAN -  - Used StyleGAN2 to transform humans into Pokemon

- Upscaled and prepared pokemon dataset for training with styleGAN2-ada model
- Blended FFHQ model and PokeGAN model together to convert humans into pokemon

EyeGAN -  -  - Used DCGAN to create human eyes

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

Robot XboxController -  - Combined arduino with unity ml-agents

- 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 and play pong

Hackathons- Participated in numerous hackathons

- **Hack The Hammer II**- Built route safety calculator using the **google maps API** and **scikit-learn**
- **Massey Hacks 2020**- Built a video summarizer. Pulled captions from youtube API, then ran a summary algorithm to extract important parts. Python script edited important parts of video together.
- **Silly Hacks 2020**- Built a discord bot to mute users based on http post requests from client. Client pulled information from AmongUs using **OCR**

Education

Thornlea Secondary School- Secondary School 2018 - 2022

- **Clubs:** co-president of chess, comp-sci, and robotics club, STEM team, chemistry club, curling team, badminton team, ACAM
- Distinction and/or Honour roll on all Waterloo contests. 34 on senior CCC

Experience

The Knowledge Society- Accelerator Sep. 2020 - Current

- Consulted and built recommendation deck for Instacart and the United Nations
- Worked on hackathons and challenges with emerging tech like AI

Skills

Languages: Python, C++, Java, 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