Languages .

LANGUAGES TOOLS Proficient: Java, Python | Competent: JavaScript, HTML5//CSS3, Racket | Familiar: C, MATLAB//Octave

Libs: NodeJS, libGDX, Keras, Scikit-Learn | Tools: Git, GitHub, ETrX, Atom, Ubuntu | Frameworks: Bootstrap, LUIS, Unity

Projects

CHESS GAME & ENGINE

PERSONAL Aug. 2017 - Present

- Currently implementing a chess game & engine in Java. Analyzes previous games using the Minimax algorithm.
- Uses object-oriented principles including classes for the board, engine and GUI, and abstraction for pieces, moves and other features.

DESTIN Toronto, ON

GLOBAL AI HACKATHON

- Jul. 2017 • Developed a chat-bot that responds to queries about different locations around the world in a team of 6. Utilized Microsoft's LUIS
- (language processing) API and integrated components in JavaScript using NodeJS.
- Presented chat-bot project idea using the Microsoft Bot Framework Emulator to ∼40 people and earned 2nd place at the Global Al Hackathon in Toronto.

DUNGEON CRAWLER GAME

PERSONAL May. 2017 - Jun. 2017

- Developed a simplified version of the indie game "Enter the Gungeon" in Java. Used the physics engine in libGDX to implement collisions between the player and obstacles.
- · Used classes and inheritance to implement the player, enemies and ground pick-up items such as coins.

Activities

WATERLOO STARTERHACKS Waterloo, ON

SOFTWARE DEVELOPER

Jan. 2018 - Present

• Organizing a hackathon for 250+ people in March 2018 to help first-time hackers gain experience coding, designing and pitching ideas.

WATERLOO SAILBOT Waterloo, ON

CONTROLS TEAM MEMBER

Oct 2017 - Present

- Tested deep learning frameworks to use with compatibility in ROS and the on-board Jetson hardware. Presented on benefits and drawbacks of the frameworks to a team of 15.
- · Implementing a classifier to detect an orange buoy in an image using transfer learning on the pretrained Inception model in Python.

FIRST ROBOTICS Mississauga, ON

STRATEGY | FAD

Oct. 2016 - May. 2017

- As a strategy lead, led a team of 5 to effectively collect/parse data on other teams using scouting sheets and the FRC Krawler app. Made strategic decisions based on analysis using Excel.
- Learned fundamentals of programming the robot in the FRC WPI library and how sensors relay data to and from the RoboRIO.
- Attained 7 awards in Regional and Provincial events and qualified for the FIRST World Championship in Rookie year.

CHESS TEAM & CLUB Mississauga, ON

PRESIDENT

Sep. 2013 - May. 2017

- Led high school chess club and team. Helped improve players' skills through weekly games and chess exercises.
- · Participated in several tournaments in the PEEL region and won 1st place in the PEEL Team Chess Tournament 2013.

Honours & Awards

| 2017 | Len Richardson Award , Awarded to one student displaying great passion for science & innovation. | Mississauga, ON |
|-------------|---|-----------------|
| 2017 | FIRST Rookie Inspiration Award, Celebrates a rookie team's outstanding success in advancing | Toronto, ON |
| | appreciation for engineering, both in their school and in their communities. | |
| 2017 | Faculty of Mathematics Scholarship, Awarded to outstanding students entering the Math Faculty. | Waterloo, ON |
| 2015 - 2017 | Mathematics Contests. Achieved top 5% in the Fermat, Hypatia, Cayley Waterloo Math Contests. | Waterloo ON |

Education

University of Waterloo

Waterloo, ON

2017 - Present

CANDIDATE | BACHELOR OF COMPUTER SCIENCE (CO-OP)

- Taking additional courses and planning to pursue the Joint Statistics Major. (Current GPA: 3.94)
- Online coursework: Machine Learning (Stanford, Coursera) and Introduction to CS using Python (MITx, edX).