DEREK HON | Curriculum Vitae 🔽 derek.hon@outlook.com 🔹 Markham, ON 🔹 🥒 +1 (647)328-4067 GitHub in LinkedIn •

SUMMARY _

Masters of Science graduate in Computational Intelligence. Worked with Genetic Programming and aspects of Computer Vision. Open to any opportunities with a preference to Al.

EDUCATION ____

BROCK UNIVERSITY

MSc Compuational Intelligence

CGPA: 92%

BROCK UNIVERSITY

BSc Computer Science Co-op CGPA: 81%, First Class Standing 1/2021 - 2/2023 St. Catharines, ON

09/2016 - 12/2020

St. Catharines, ON

01/2021 - 08/2022

St. Catharines, ON

St. Catharines, ON

Toronto, ON

Remote

Toronto, ON

EXPERIENCE _____

GRADUATE TEACHING ASSISTANT

Brock University

Lab Demonstration: Demonstrate exercises to be completed and provide assistance.

Marker/Grader: Grade assignments, exams, and proctor exams. Course coordinator: Communication liaison for the professor. Help desk hours providing aid for all computer science courses.

MASTER THESIS STUDENT 01/2021 - 02/2023

Brock University

Illumination techniques applied onto Genetic Programming to explore the novelty of

diversity. Thesis Link

FULL STACK DEVELOPER INTERN 01/2019 - 08/19

Tejo (Mirrabel Inc.)

Revamped web app's back-end and front-end along with the sign up process and up-selling features. Fixing bugs/QOL through testing and from customer feedback. Improve work efficiency through SCSS and CSS scripts through SFTP to the server along with bash scripts as the access point.

FREELANCE DEVELOPER 03/2019 - 03/19

DroneHub Fixed React object references and JavaScript errors on the website.

SOFTWARE DEVELOPER INTERN 01/2018 - 04/18

HubDoc

progress updates to the intranet with filters.

Developed scripts to parse numerous financial documents. Add graph generation for

SKILLS

PROGRAMMING LANGUAGE FRAMEWORKS & TOOLS

Experienced: Java | Python | JavaScript Familiar: C++ PHP Latex ECJ(23, 27) | OpenCVI | Git | R Studio | Drupal

LIBRARIES matplotlib | Tesseract | SLMLab

PROIFCTS

ECJ 27 MAP-ELITES (PROTOTYPE)

2021

Implementing MAP-Elites (https://arxiv.org/abs/1504.04909) into Sean Luke's ECJ ver. 27 (https://cs.gmu.edu/eclab/projects/ecj/). Once fully documented, and once the code has been brought up to personal satisfactory quality, it will be submitted in hopes of becoming an official package.

RECURSIVE NEURAL NETWORK

2021

A recursive neural network utilizing Super Smash Bros. Melee frame data as input to try and classify the characters based off of the moves utilized within the game which is obtained through the frame data.

RECEIPT EXPENSE CALCULATOR

2018

Android StudioFree Neural Network OCR to parse receipt data to track expenses with user correction option afterwards. The images will be stored as a bitmap to view at any point in time, and expenses from month-day and year-day will be calculated and shown.

f Articles under review $oldsymbol{oldsymbol{\bot}}$

IEEE CONGRESS ON EVOLUTIONARY COMPUTATION (CEC)

2023

Submitted a paper to the IEEE 2023 Congress on Evolutionary Computation regarding Distributed MAP-Elites and its Application in Evolutionary Design which is currently under review.

RESEARCH GROUPS_

BIO-INSPIRED COMPUTATIONAL INTELLIGENCE GROUP (BICIG)

2021 - Present

BICIG is a research group residing in the Department of Computer Science at Brock University. Group Link

Honors & Awards.

BRIAN HELSTROM COMPUTER SCIENCE SCHOLARSHIP

2021

Brock University

St. Catharines, ON

Given to a full time domestic student who demonstrates academic excellence.

DEAN OF GRADUATE STUDIES ENTRANCE SCHOLARSHIP

2021

Brock University

St. Catharines, ON

Given to students entering the program who demonstrate academic excellence.

DEAN'S LIST

2017, 2019 & 2020

Brock University

St. Catharines. ON

Academic distinction based on the term prior to the end of the year.