DEREK HON | Curriculum Vitae

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GitHub • in LinkedIn • in Blog

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.

Experience ____

SOFTWARE ENGINEER 05/2023 - Present

TD Canada Trust

Solutioned a script to be deployed only during emergency situations.

Solutioned errors which occured during deployments.

Monitored and solutioned environmental problems in SIT, Pre-Prod, and PROD Environments.

Working on a local CI pipeline for Active Trader.

Utilized Jacoco to generate unit test coverage for the Active Trader project.

Modified existing test coverage on batch jobs by 30% and wrote new tests with 80%

Prototyped a rewrite for the trading API for Active Trader.

Worked on a resiliency project to increase resiliency and stability across platforms.

GRADUATE TEACHING ASSISTANT

01/2021 - 08/2022

St. Catharines, ON

St. Catharines, ON

Toronto, ON

Toronto, ON

Toronto, ON

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 Remote

Fixed React object references and JavaScript errors on the website.

SOFTWARE DEVELOPER INTERN 01/2018 - 04/18

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

progress updates to the intranet with filters.

SKILLS

PROGRAMMING LANGUAGE **Experienced**: Java | Python | JavaScript Familiar: SQL | C++ | PHP | Spring

Batch XML | Maven

FRAMEWORKS & TOOLS Copilot | ECJ(23, 27) | OpenCV | Git | R Studio | Drupal

LIBRARIES matplotlib | Tesseract | SLMLab

PROJECTS

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.

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