

# Garvan Doyle

✉ garvandoyle@gmail.com | ☎ 6477793871 | 📍 Toronto, ON | 🌐 www.github.com/GarvanD

## Work Experience

### Aviva Canada

Toronto, ON

STUDENT INTERN

May 2019 – August 2019

- Created a database and search tool that organized programs for Global Corporate Specialty Risk.
- Developed a model which can extract policy information from PDF's using predictive zonal OCR and SVM classification.
- Automated the input of policy information for the Plans & Programs department.

## Skills

**Programming Languages:** Python, Java, C#

**Frameworks:** NLTK, Keras, Sci-Kit Learn, Tensorflow

## Education

### Western University

London, ON

B. ENG. SCI IN SOFTWARE ENGINEERING

Sep 2017 – May 2021

## Roles & Projects

### Western Rocketry Avionics Executive

London, ON

RESPONSIBLE FOR OVERSEEING SOFTWARE DESIGN & IMPLEMENTATION IN ROCKET AND DEVELOPING WEBSITE.

OPTIMIZED COMMUNICATION PROTOCOL FROM GROUND TO ROCKET WHICH MINIMIZED BANDWIDTH USAGE.

[werocketry.com](#)

DEvised A SIMULATION PROTOCOL FROM WHICH AIR STABILIZATION AND BRAKE TECHNOLOGY CAN BE OPTIMIZED.

### FinTech Innovation Developer Lead

London, ON

CREATED A STOCK TRADING SIMULATOR WEB APP FOR WESTERN STUDENTS BUILT WITH REACT AND JAVASCRIPT.

RESPONSIBLE FOR PROJECT DIRECTION AND ORGANIZATION OF 8 OTHER DEVELOPERS AS WELL AS IMPLEMENTATION.

[github.com/GarvanD/Fintech\\_Full](#)

### FinTech VP of Education

London, ON

RESPONSIBLE FOR DELIVERING WORKSHOPS ON CURRENT TECHNOLOGIES WITHIN THE FINTECH DOMAIN.

### Reinforcement Learning Game Agent

Python, C#, OpenCV, Tensorflow

AN ML AGENT WHICH USES DEEP Q LEARNING TO PLAY A S.H.U.M.P GAME DEVELOPED IN UNITY. USING A CNN TO

PROCESS SCREENSHOTS FROM THE GAME, THE MODEL CAN RETURN INTELLIGENT INPUTS WHICH RESULTED IN

BEATING THE GAME.

[github.com/GarvanD/Deep-Q-Agent](#)

### NLP Analysis of Legal Documents

Python, NLTK, Keras

DEvised A PREDICTIVE MODEL TO SUGGEST WHETHER THE PROSPECTIVE OUTCOME OF LAWSUITS WERE TO BE

PROFITABLE. MODEL UTILIZES DEEP SENTIMENT ANALYSIS ON DOMAIN EXPERT'S CORPORA BY EMPLOYING

WORD2VEC AND SENTENCE2VEC EMBEDDING'S RNN.

[Augusta Ventures](#)

## Awards

July 2019	<b>BRAVO</b> , Recognized for the development of a database and search tool which identified lapsed programs. This resulted in a 31% decrease in total discrepancies and reclaiming over 3.6 million dollars in premium.	Aviva Canada
June 2019	<b>Best Design Finalist</b> , Developed a web app in which total carbon production from public companies can be compared using a formula devised to index companies based on the correlation between net income and equivalent carbon production.	UW Energy Hacks