# **Akil Hamilton**

# 2nd Year Software and Biomedical Engineering Student

- Proficient in Python, C/C++, JavaScript, Java & Assembly using Linux and Windows platforms
- Self-taught with Machine Vision, Machine Learning & Deep Learning through online resources
- Familiar with TensorFlow, OpenCV, Keras, R, SQL, MongoDB & NodeJs
- Experience with Git, Docker, Cloud9, AWS & Heorku for version control, and application hosting



# **Personal Info**

#### **Personal Website**

AkilHamilton.com

#### **Phone**

647-929-6029

#### E-mail

hamila10@mcmaster.ca

#### **GitHub**

github.com/akiljames83

#### LinkedIn

linkedin.com/in/akil-hamilton/



## **Skills**

Python
Advanced

C/C++
Advanced

JavaScript

Experienced

Web Development

Experienced

**Machine Vision** 

Experienced

Machine Learning

Experienced

# Extracurricular Activities

#### **2018 - present**

VP Finance iBiomed Society

#### 2018 - present

McMaster Al Society

#### **2018 - present**

McMaster Competitive Programming



## **Education**

### 2017-09 - McMaster University

present

- · Bachelor of Software and Biomedical Engineering
- · GPA: 3.85
- · Courses: Intro to Software Development, Discrete Math and Logic, Principles of

Programming, Engineering Math, Data Structures & Algorithms

#### 2018-09 Deeplearning.ai

- · Completed specialization in Machine Learning through Coursera
- Developed comprehensive knowledge of CNNs, RNNs, LSTMs & Algorithm

**Optimization** and **Regularization** techniques



# **Experience**

# 2018-05 - Software Engineer Intern

seconds)

2018-08

Telus Communications

- · Diligently assisted with upgrading of telecommunication fraud database
- Competently supported Data Lake Machine Learning Research
- · Proactively developed code to **optimize** call data analysis (**10 minutes** to **20**

Languages: PYTHON, FLASK, C/C++, JS, SQL, BASH

#### 2017-06 - Software Engineer Intern

2017-08

Sunnybrook Hospital - University of Toronto

- · Proficiently developed code to analyze Ultrasound Image clarity for clinical use
- · Improved analysis efficiency **5-fold** by **optimizing Matlab code**



# **Personal Projects**

## **2018 - Forex Market Prediction**

present

Data Analyst and AI Developer

- · Effectively developed **Bidirectional LSTM Network** for Live Forex Market Prediction using **Keras, Tensorflow** and Various API's
- · Meticulously developed **unique algorithm** for Pip Weighted Error Analysis and Trend Visualization using **Python** & **R**
- · Successfully accumulated **10**% profits in first month using model

#### 2018-03 Write *Ai*-d

Machine Learning Developer & Webmaster

- · Independently developed a **Machine Learning** application to improve client's writing ability
- Selected as one of top projects in Department of Engineering showcase
   and nominated for the National IDeA competition

Languages: PYTHON, FLASK, HTML, CSS, JS