# Akil Hamilton

## 2nd Year Software and Biomedical Engineering Student

- Proficient in **Python, C/C++, JavaScript, Java** & **Matlab** 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**
Founder - McMaster FX.ai

**2018**
Executive - McMaster AI Society

**2018**
VP Finance - McMaster iBiomed Society

**2018**
Member - McMaster Competitive Programming

## Education

**2017-09 - present**
### McMaster University
· 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 - 2018-08**
### Software Engineer Intern
*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 seconds**)
**Languages:** PYTHON, FLASK, C/C++, JS, SQL, BASH

**2017-06 - 2017-08**
### Software Engineer Intern
*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 - present**
### Forex Market Prediction
*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 **forecasts** Forex trends hours into the future 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