

Akil Hamilton

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Portfolio AkilHamilton.com

GitHub github.com/akiljames83

- Software & Biomedical Engineering student experienced in many languages using **Unix, Linux & Windows** Platforms
- Strong foundation with **Scripting, Workflow Automation, & Back-end** Development
- Working knowledge of **Machine Vision, Machine Learning & Deep Learning** through online resources

Education

2017-09 - 2021-04	McMaster University <ul style="list-style-type: none">· Bachelor of Software and Biomedical Engineering; GPA: 3.85· Courses: Intro to Software Development, Discrete Math, Engineering Math, Data Structures & Algorithms
2018-09	Deeplearning.ai <ul style="list-style-type: none">· Completed 5-Course Specialization in Deep Learning through Coursera Education Platform· Developed comprehensive knowledge of; ANNs, CNNs, RNNs, LSTMs & Algorithm Regularization

Experience

2018-05 - 2018-08	Software Engineering Intern <p><i>Telus Communications; Toronto, Canada</i></p> <ul style="list-style-type: none">· Successfully upgraded telecommunication database increasing query speed 20%· Effectively performed Data Lake Machine Learning Research for fraud detection software implementation· Proactively developed code to optimize call data analysis (10 minutes to 20 seconds)
2017-07 - 2017-08	Software Engineering Intern <p><i>Sunnybrook Health Sciences Centre; Toronto, Canada</i></p> <ul style="list-style-type: none">· Proficiently developed (5) programs to analyze Ultrasound Image clarity for Neurosurgery applications· Improved analysis accuracy and efficiency, ~10% and 500% respectively, by optimizing Matlab legacy code· Interdependently developed GUI with non-technical team members for ease of use with algorithms

Personal Projects

2018 - present	Forex Market Prediction <p><i>Data Analyst and AI Developer</i></p> <ul style="list-style-type: none">· Effectively developed LSTM Network for Live Forex Market Prediction using Keras and Various API's· Developed unique algorithm for Weighted Error Analysis and Trend Visualization using Python & R· Successfully forecasts Forex trends hours into the future using model in less than 10 seconds
2018-04	Write Ai-d <p><i>Machine Learning Developer & Webmaster</i></p> <ul style="list-style-type: none">· Independently developed a Machine Learning application to improve disabled client's writing ability· Developed application using Tensorflow, Tkinter & OpenCV, successfully achieving +83% accuracy· Project selected for Department of Engineering showcase & nominated for National IDeA Competition

Skills

- Languages:** Python; C++; C; JavaScript; jQuery; PHP; Bash; R; Matlab; Assembly;
- Web Development:** Flask; Django; NodeJs; ReactJs; Hack; HTML; CSS; Bootstrap; C9; AWS; Heroku;
- Databases and Version Control:** MySQL; SQL; MS SQL; MongoDB; SVN; Git;
- Machine Learning Frameworks:** Tensorflow; Keras; OpenCV; Numpy; SciKit Learn; Octave;