AKIL HAMILTON

ENGINEERING STUDENT

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SUMMARY

- Software & Biomedical Engineering student experienced in many programming languages using Unix, Linux & Windows Platforms
- Strong foundation with Scripting, Workflow Automation & Back-end Development & Deep Learning
- Comprehensive understanding of Machine Vision, Deep Learning, Predictive Analytics & Probabilistic Modeling through online resources

EMPLOYMENT

Slack
Incoming Software Engineering Intern · June 2019 to Aug. 2019 · San Francisco, California
- Full-stack developer on the Customer Experience Team.
- Will convert code-base from PHP to Hack for legacy code and for Support Page backend.
- Frontend work will be primarily done with ReactJS and AngularJS.

CheckUp
Co-Founder and Software Engineer · 2018 to Current · Hamilton, Canada
- Mental Health Application for Physicians to improve client care with increased granularity through 30 day time-lapse report.
- Developed Mobile application using Dart & Flutter to interact with remote HIPAA database.
- Ground up development of Scalable Web Application Architecture using FireBase & AngularDart resulting in ~99% up-time.

Telus
Software Engineering Intern · May 2018 to Aug. 2018 · Toronto, Canada
- 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)

Sunnybrook Hospital
Software Engineering Intern · July 2017 to Aug. 2017 · Toronto, Canada
- 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

PROJECTS

Write Ai-D:
Machine Learning app to decipher messy writing of client with spastic condition (83% accuracy). 1 in 50 nominated for National IDeA competition.

Forex Market Prediction:
Bi-Directional LSTM Network and other custom algorithms to forward predict Forex Market trends using Python and R (<10 s).

Twitter Fake News Tracker:
Dynamic representation of fake news spread across Twitter Sub-populations using Force Directed Graphing & Traversal algorithms.

SKILLS

LANGUAGES: C++, C, Python, JavaScript, Dart, PHP, Hack, R, MySQL
FRAMEWORKS, LIBRARIES & TECHNOLOGIES: Tensorflow, Keras, OpenCV, Numpy, Django, NodeJS, ReactJS, Flutter, Kubernetes

EDUCATION

McMaster University · Sept. 2017 to Current
B.Eng.BME Software and Biomedical Engineering
GPA: 3.9
Activities: National Society of Black Engineers, ICPC Competitive Programming, AI Society

Deeplearning.Ai · 2017 to 2018
- Attained comprehensive knowledge of: ANNs, CNNs, RNNs, LSTMs & Algorithm Regularization
- Completed 5 Course Specialization in Deep Learning through Coursera Education Platform