KEEGAN MCCALLUM | DATA ANALYST / WEB DEVELOPER

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PROFILE

- 3 years of financial industry experience focusing on data analytics, optimisation, and largescale data processing.
- 3 years experience in software development, focusing mostly on full stack web development, mobile application development, and data science.
- designed, built and manged product development of multiple high impact, production-scale applications
- participated in the hiring/interview process, comfortable building and managing a team of software developers
- · Bachelor's of Computing from Queens University

SKILLS

- Fullstack Web Development: | React | Redux | D3 | Plotly | Matplotlib | HandsonGrid | Jquery |
 Dojo | ES2016 | AngularJS | NodeJS | Django | Flask | SailsJS | Socket.io | Deepstream.io |
 Pouch/CounchDB | Loopback | FeathersJS |
- Mobile Development: | Android(Java) | iOS(Objective-C) | React Native | Cordova | Realm.io |
 Parse |
- Data Analytics: | Pandas | Numpy | GLPK | Gurobi | Apach Spark | Hadoop | PostGreSQL | SQL Server | MariaDB | MongoDB | SQLite |
- Machine Learning: | Keras/Tensorflow | Magenta | LSTM | CNN | Spacy | NLTK |
- **Financial Management**: | Fixed Income Portfolio Management | Quantitative Finance | Linear Optimization | Statistics |

WORK

Portfolio Analytics Specialist | TD Asset Management (Jan. 2014 - Present)

- Trade Blotter:
 - Architected and Managed Start to Finish
 - Full-featured trade modelling platform
 - o Multi-window, real-time updates
 - Built using modern web technologies (React, Redux, Deepstream.io, Django Rest Framework)
- Bond Portfolio Optimizer:

- Built and Architected Initial Production Release
- Flexible Graphical User Interface to Build Complex Constraints
- Multiple Objective Functions, Buy/Sell Lists
- Built With Modern Data Analytics Tooling (Numpy, Pandas, Gurobi)

CTO | Personal Ventures (Sept. 2014 - June 2016)

- ReLease Rentals:
 - A mobile rental marketplace for the modern age with design cues taken from Uber and Tinder
 - o Built with React Native, PostgreSQL and FeathersJS
- UFESS:
 - o Aggregator for University Confessions facebook pages with 2,000 active users at peak
 - Supported anonymous posting directly through the application
 - o Built with Ionic, Cordova, Strongloop Loopback

Student | Queens University (Sept. 2014 - April 2016)

- Sign Language Tutor:
 - Created a tutor application which leveraged gesture-recognition technology to tech the user proper sign language
 - Created a classifier which recognized a number of signs and gave the user feedback in real-time
 - Built using the Myo Wristband, a custom-built Flexible Mobile phone prototype, and Cordova/Java
- Open World Queens University Video Game:
 - Scale, 3D model of Queens University Campus which the user can explore. 2 minigames triggered by entering certain areas
 - Built with Unreal Engine, C++

Open Source

- sql4pandas
 - wrote a compiler for the SQLite language specification to allow running sql commands directly against pandas dataframes, written in pure python

EDUCATION

- Bachelors of Computing | Queens University (Graduated April 2016)
- Bachelors of Accounting and Financial Management | University of Waterloo (left program after 3rd year)