

Curtis Chong

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Honours Bachelor of Software Engineering Co-op | University of Waterloo | 2018 - 2023 (Expected)

Skills

Data Science: SQL, Python, Pandas, TensorFlow, Keras, Scikit-Learn, Jupyter, Databricks

Infrastructure: Postgres, InfluxDB, Docker, Firebase, AWS, EC2, OpenVPN

Backend Development: C++, C, golang, Python, Node.js, Java, Vim, Git, Bash, Linux

Application Development: JavaScript, React, Swift, HTML, CSS, jQuery

Work Experience

Data Scientist at Flipp Corporation (Python, Pandas, Scikit-Learn, SVM, TSNE)

July - Aug. 2017

- Evaluated as a **top employee in the 95th percentile** (bit.ly/flipp_eval)
- Designed and tuned an SVM ensemble to a **precision of 0.598** to filter candidates with poor résumés
- Drastically improved text normalization and feature extraction with my in-house résumé parser
- Frequently sought out meetings with the Talent team to present findings and to shape business direction
- Generated N-grams, a bag-of-words, and a hand-picked dictionary as a feature space for modelling
- Identified troublesome words with high-dimensional visualization tools such as TSNE, SVD, and FDA

Data Scientist at Big Terminal.com Inc. (SQL, InfluxDB, Tensorflow, Keras, Scikit-Learn Node.js)

Aug. 2018 - Aug. 2018

- Tracked Bitmex and Bitfinex's cryptocurrency markets to highlight arbitrage opportunities
- Analyzed historic interest rates to create a lending bot that lends at favourable rates

Awards (Hackathon Count: 23 | Wins: 10)

Winner at Hack the North (1000 participants | Angular, Node.js, CockroachDB | bit.ly/prj_agrigate)

- Won Canada's largest hackathon by analyzing data from NASA to deliver current climate statistics
- Projected crop prices to feature opportunities for farmers to sell crops

Second Place at MHacks 9 (300 participants | React, Firebase | bit.ly/prj_recap)

- Created a text editor that archives a presenter's audio as notes are taken

Sole recipient of the Scotiabank Software Engineering Entrance Scholarship (\$15,000)

Projects

Kaggle - Quora Insincere Questions Classification (Tensorflow, Keras, Pandas, Scikit-Learn | bit.ly/kaggle_quora)

- Analyzed dozens of Bidirectional GRU, Capsule, and attention-based neural networks to classify insincere Quora questions
- Encoded questions with the Glove and Paragram embeddings
- Taught the network insincere semantics by replacing dependent words with neutral terms before encoding
- Selected the most impactful features with LightGBM, XGBoost, and a Random Forest which led to an **F1 score of 0.685**

Lizzie - Collecting personal metrics to save time (golang, Swift, InfluxDB, OpenVPN | bit.ly/prj_lizzie)

- Configured an OpenVPN network and a golang server to store my biometrics from an iOS and watchOS app
- Building a siamese network to encode my timeseries biometric data and identify different daily activities

Volunteering and Extracurriculars

Data Science Workshop Lead at the STEM Fellowship (bit.ly/bdc_workshops)

Mar. 2017 - Present

- Led and managed the workloads of 4 students to organize logistical proceedings for data science competitions
- **Established a curriculum** to teach 400 participants how to derive insights from datasets through statistics and ML

Corporate Director at the Toronto Hacker Club

Sept. 2015 - Oct. 2017

- Led an internal team that raised \$13,000 to host hackathons and workshops for over 400 student participants