BILL CHEN

🎓 3A Systems Design Engineer 💻 billchen.ca
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PROFESSIONAL EXPERIENCE

Data Scientist
Evernote Corp.
Jan – Apr 2018

- Developed a recommendation system using various **NLP** techniques (LDA, TF-IDF, Word2Vec, FastText).
- Implemented document classification algorithms using **Spark**; ran on over 100 million customer notes with a prediction accuracy of 90%.
- Created machine learning pipelines using **Apache Airflow**, **SQL,** and **Google Cloud Platform** services.
- Optimized Churn and Retention models by applying feature engineering and hyper-parameter tuning using **Scikit-learn**, **Tensorflow**, and **ML-Engine**, increasing prediction accuracies by 8-10%
- Led the development of a **cryptocurrency** payment portal prototype for Evernote's premium service.

Software Engineer
Yahoo! Inc.
May – Aug 2017

- Developed and deployed a web application in **Golang** and **React** to find dependencies in **Docker** images.
- Implemented caching and indexing techniques with **Redis** and **Elasticsearch** to decrease querying overhead from 30 minutes to a few seconds.
- Created continuous delivery pipelines using **Kubernetes** and its best practices.

Software Engineer
Miovision Corp
Sept – Dec 2016

- Developed features for Miovision's REST API service using **Java**, Spring, **MySQL** and various **AWS** services.
- Added UI features in **AngularJS**, saving the company an average of $3000/week on operational costs.
- Set up and deployed a Proxy Cache server powered by **Nginx** to handle 600% more traffic to Miovision's platform.

PERSONAL PROJECTS

Ether-Sports

- Created an e-sports betting platform powered by Ethereum smart contracts using **ReactJS**, **NodeJS**, **MySQL**, and **Solidity**.

LolPredict

- Applied various machine learning models (logistic regression, SVM, NN) using **Tensorflow** to predict the outcome of a League of Legends match.
- 85-87% accuracy on cross validation set.

Alexa Jarvis
1st – WearHacks Kitchener

- Created a hybrid phone app using the Ionic Framework and a **NodeJS** backend with a **Firebase** database.
- Programmed the voice interface on a **Raspberry Pi** which communicates with **AWS**'s Voice AI service.

Thrives in *Agile* Environments

Experienced *Presenter* and *Public Speaker*

Can exit *Vim*

SKILLS

Programming

Python	5 years
Java	5 years
JavaScript	3 years
Go	2 years

Technologies

Spark	Airflow	AngularJS
Docker	SQL	NodeJS
Kubernetes	Redis	Git
Jenkins	Cassandra	Nginx
Selenium	Elasticsearch	React
AWS	Neo4J	GCP

ADDITIONAL EXPERIENCE

Education

Systems Design Engineering,
University of Waterloo – Deans Honors List
Candidate for BASc, 2015-2020

E-Learning

- Advanced Algorithms in Java *Udemy*
- Full Stack Web Development *Coursera*
- Intro to Machine Learning *Coursera*
- Deep Learning *Udemy*
- Ethereum and Solidity *Udemy*

Awards/Other

- Valedictorian *Sir John A. Macdonald CI*
- WearHacks KW 2016 – Winner
- Hack the North 2015 – Winner
- Hobbies: Archery, Weight Lifting, Rock Climbing, Photography, Cryptocurrencies