BILL CHEN

🎓 2B Systems Design Engineer 💻 billchen.ca
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PROFESSIONAL EXPERIENCE

Software Engineer
Yahoo! Inc.
May – Aug 2017

- Developed an internal 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.
- Applied **web security** industry standards such as TLS, Cookie management, Access Control, and SQL/JavaScript injection prevention.

Software Engineer
Miovision Corp
Sept – Dec 2016

- Developed features for Miovision's REST API service using **Java**, Spring, **MySQL** and various **AWS** services.
- Conducted Human Factors research to make UI improvements saving 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.
- Introduced development team to Automated UI Regression tests in **Java-Selenium**, saving the team over and hour of testing per deployment.

Web Developer
Genesys Labs
Jan – Apr 2016

- Designed and developed features for Genesys' most popular web-app, built on **AngularJS** and used by 40,000+ customers.
- Increased code coverage from 40% to 90% while implementing continuous integration using **Karma/Jasmine** with **Jenkins**.
- Improved code efficiency to decrease web-app page rendering time by 45%.

PERSONAL PROJECTS

Ether-Sports

- Created an e-sports betting platform powered by Ethereum smart contracts.
- Developed with **ReactJS**, **NodeJS**, **MongoDB**, and **Solidity**.

LolPredict

- Created various machine learning models (logistic regression, SVM, ANN) using **Python**, **Pandas**, and **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	4 years
Java	4 years
JavaScript	3 years
Go	2 years

Technologies

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

ADDITIONAL EXPERIENCE

Education

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

E-Learning

- Algorithms *Coursera*
- Full Stack Web Development *Coursera*
- Intro to Machine Learning *Coursera*
- Deep Learning *Udemy*

Awards/Other

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