

BILL CHEN

🎓 Systems Design Engineer

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PROFESSIONAL EXPERIENCE

Software Developer

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 an hour of testing per deployment.
- Implemented metrics aggregation for Miovision's machine learning agent using **Elastic Search**.

Full-Stack Developer

Green Papaya (Contractor)

Mar - Sept 2016

- Created a REST API using **Java/Jax-RS/Jersey** hooked onto a **MySQL** database & **Redis** Cache to manage the restaurant's menu data.
- Led the UX/UI R&D team to design a new web platform for Green Papaya's website.
- Built a mobile friendly e-Menu web-app using **AngularJS**.

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% lines while implementing continuous integration using **Karma/Jasmine** with **Jenkins**.
- Improved code efficiency to decrease web-app page rendering time by 45%.

QA Analyst

Flipp Corp

May - Sep 2015

- Created test cases and test scripts written in **Ruby** paired with **Selenium** Webdriver, doubling the webapp's code coverage from 20% to 40%.
- Integrated automated tests with **Jenkins** which reduced code deployment time from 45 minutes to 5 minutes.

PERSONAL PROJECTS

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 Portal

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
C++	2 years

Technologies

Nginx	SQL	NodeJS
Docker	Redis	AngularJS
Jenkins	Cassandra	Karma
Selenium	MongoDB	Git/Mercurial
AWS	Elastic Search	Bash

ADDITIONAL EXPERIENCE

Education

Systems Design Engineering,
University of Waterloo

Candidate for BASc, 2015-2020

E-Learning

- Algorithms Part 1, Part 2 *Coursera*
- Full Stack Web Development *Coursera*
- Intro to Machine Learning *Coursera*
- Deep Learning *Udemy*

Awards/Other

- Valedictorian *Sir John A. Macdonald CI*
- Hack the North 2015 – Winner
- Teamwork in Athletics
- Outstanding High school science Student
- Hobbies: Archery, Weight Lifting, Rock Climbing