Christopher Bo Yi Chang

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EDUCATION

UNIVERSITY OF WATERLOO
Bachelor of Honours Computer Science | Software Engineering Option
Expected May 2019 | Waterloo, ON

LINKS

Github: **github.com/chrischang7312**
LinkedIn: **linkedin.com/in/bycchang**

COURSEWORK

Designing Functional Programs
Elementary Algorithm Design and Data Abstraction
Logic and Computation
Object-Oriented Software Development

SKILLS

LANGUAGES
Proficient:
Ruby • Racket
HTML5 • CSS3
Familiar:
C • C++ • PHP
Python • Go • Javascript

FRAMEWORKS
Ruby on Rails • Laravel
ReactJS • jQuery • Bootstrap

DATABASES
MySQL • Graphite
InfluxDB • Apache Solr

TOOLS
Unix • Bash • LaTeX
Git • Amazon Web Services

INTERESTS

Machine Learning
User Experience
Databases
Hackathons
Sales
Basketball

PROFESSIONAL EXPERIENCE

SOFTWARE ENGINEERING INTERN | CareGuide Inc.
April 2015 – August 2015 | Toronto, ON

- Lead implementation of new metrics dashboard using Grafana, Graphite, InfluxDB
- Wrote scripts to import data from MySQL into Graphite and InfluxDB
- Setup database backup and encryption Cron job using AWS and SHA-2
- Worked closely with the designer to implement new email user interfaces
- Created a dynamic footer on the Rails application using Apache Solr with external and internal URL linking to increase search engine optimization

PROJECTS

REAL TIME YOUTUBE COMMENTING | Google Chrome Plugin
September 2015

- A chrome plugin that allows users to comment on videos based on video timing in real time
- Created at the University of Waterloo hackathon, Hack The North
- Applied Firebase, Javascript, jQuery for real time syncing of video comments

STOCK WATCH | Stock Notification Application
September 2015

- A web application that allows users to pick favorite stocks and sends SMS notifications based on percentage changes of your favorite stocks
- Built at the University of Michigan hackathon, MHacks VI, with Ruby on Rails, Twilio API and Bootstrap
- Implemented log in and sign up using OAuth in Ruby and developed Twilio script to send SMS notifications

SOLANUM | Agriculture Web Application (Ongoing)
July 2015 – Present

- A web application that allows users to connect with local farmers to buy fresh and organic food
- Built using ReactJS, Laravel and backed by MySQL
- Engineered RESTful API and setup relational data models

FORTUNE TWEETER | Twitter Robot
August 2015

- A Twitter Robot to tweet witty and intelligent fortunes
- Used the Twitter API and wrote a Ruby script to tweet funny tweets
- Setup a Cron job on server to run the script after a certain time period

EXTRACURRICULAR

2015   Executive Member • University of Waterloo App Development Club
2014   Co-Captain • St. Augustine High School Varsity Basketball Team OFSAA

AWARDS

2014   Edward S. Rogers Sr. Scholarship (Only 20 awarded to 2000 Applicants)
2014   President Scholarship from the University of Waterloo
2014   Nominated for the Chancellor Scholarship at Queens University