

# YAXIN CHENG

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## CO-OP STATUS

Available for second Co-op term in Jan 2017

Will have completed five of eight academic terms in Jan 2017

## EDUCATION

### **Bachelor of Computer Science (Jan 2015 – Present)**

Dalhousie University, Halifax, NS

## SKILLS SUMMARY

### @TECHNICAL

- **iOS programming:** Swift, Objective-C, UIKit, CoreData, AutoLayout, MVC, Xcode
- **Python:** Python3 web crawlers and backend with flask
- **Java programming:** JDK, Lambda, Vaadin
- **Machine Learning:** supervised learning, unsupervised learning, map-reduce
- **Database:** MongoDB, MySQL, SQLite (SQL + NoSQL)
- **Unix:** Unix commands, pip line, Vim
- **Agile:** SVN + pair programming + TDD
- **Programming Languages:** Swift, Python, Java, C, Objective-C, Matlab
- **Technology Tools:** Xcode, Visual Studio, Eclipse, Octave, Microsoft Office

### @NON-TECHNICAL

- **Communication:** Fluent and proper written and oral English
- **Self-motivated:** Learned iOS programming, Python, Machine learning independently
- **Time Management:** Managed the time for school and part-time job with no delayed assignment or project
- **Team player:** Work coherently and efficiently with team members. Good at discovering potentials of members and assigning related tasks to them as a leader

## RELEVANT PROJECTS

### @COURSE SPIDER (2016):

<https://github.com/YaxinCheng/Course-Spider>

An online crawler for Dalhousie Academic Timetable. Fully designed and programmed by Python3

- Analyzed web API of Dalhousie University, and built a simple demo crawler to accept the returned html file from the server
- Separate the html file returned by the server to different blocks by regular expressions
- Implemented the BeautifulSoup package to parse each block for well formatted information
- Refactoring code to better encapsulate the crawler functions and courses information
- Installed Flask, and built a RESTful API for manipulating the crawler through http requests
- Hosted the program on Heroku and wrote documents

## @FRESH LEAD (2016):

Coming to App Store

An online shopping iOS app for advertizers and customers in the city of Halifax.

- Analyzed the requirements and established user stories to negotiate with the client
- Set up an iterative developing plan in order to better manage the developing process
- Designed graphic user interface and implemented controllers under MVC structure
- Simplified and regularized the software structure by following the protocol-oriented paradigm
- Increased the efficiency and readability with implementations of value types
- Utilized the Firebase as the backend which greatly fastened the developing speed
- Optimized user experience and reduced the UI lags by gradually loading images in background threads

## EXPERIENCE

### @Green Power Labs Inc. (May, 2016 – Aug, 2016)

Junior Programmer, Buildings

- Read and analyzed the documents from building control companies so that new functions can be added
- Built adapters to bridge from Predictive Building Control (PBC) system to buildings to ensure the energy costs are under control
- Kept regular maintenances to ensure the program running properly
- Wrote documents to record the developing process, so that programs and functions can be extended in the future

### @Dalhousie International Centre (Jul, 2015 & Jan, 2016)

Student Coordinator

- Registered new students for the orientation by corresponding with them
- Picked new students up, and directed them to their accommodations in order to ensure that they arrive on campus safely
- Arranged meeting rooms during the orientation day to provide new students a welcoming space
- Conducted campus orientation as well as answered student questions in order to introduce the campus life to the students

### @Halifax Busker's Festival (Oct, 2015)

Stage Manager and Program Seller

- Ensured the artists' performances by keeping stage clear and helping to install their equipment
- Balanced the budget for the organizer by selling the programs
- Promoted the festival by introducing features and highlights
- Maintained the order by organizing people to stay in certain areas
- Ensured the public security by reporting lost children and dangerous behaviours