http://ycheng.xyz
https://github.com/yaxincheng

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 (Swift)**/>**	**<Python** (Flask && Crawler)**/>**	**<Java/>**
<Machine Learning/>	**<Database** (MongoDB && MySQL)**/>**	**<Unix/>**
<Agile/>	**<Git />**	**<C/>**
<Visual Studio/>	**<Eclipse/>**	**<Matlab/>**

}

@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

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#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

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@News Hub (2016) {   http://github.com/YaxinCheng/NewsHub-iOS
    A full stack news app, with Flask restful backend and Swift Protocol-Oriented front end

- Designed efficient regexes for news from MetroNews and Chronicle, and created crawler based on these
- Built restful API with Flask ensures the easy manipulations to the crawler
- Set up a MongoDB to persist app data, news, and user data, which largely speeded up the app
- Added image searching and compression functionalities for a better user experience
- Hashed users' passwords with salts to increase the security level of the app
- Designed app based on the restful API by Swift which makes the app concise and fast
- Largely applied value types and Protocol-Oriented Programming soars up the app's speed
- Grand-Central-Dispatch (Multithreads) ensures NewsHub runs smoothly all the time

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#EXPERIENCE

@Green Power Labs Inc. (May, 2016 – Aug, 2016)
    Junior Programmer, Buildings {

- Quickly read and studied existing documents to thoroughly understand the current system and get into work fast
- Built a stand alone testing app based on documents and existing system, which helps debug and test
- Built a flask based backend to collect user feedbacks, which optimizes the machine learning algorithm
- Designed and built a mobile iOS app to interact with user, which help enhance the user experience of PBC control software
- Gained real team working experience and optimized communication skill by cooperating with 5 team members coherently

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@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
- Maintained the order by organizing people to stay in certain areas
- Ensured the public security by reporting lost children and dangerous behaviours

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References Available Upon Request