Lufan Li

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Education

University of Iowa *Aug. 2015 - May 2017*
Master of Science in Computer Science
Coursework: Analysis of Algorithm, Cloud Computing, Software Engineering, Network Security and Privacy

Inner Mongolian Normal University *Aug. 2008 - July 2012*
Bachelor of Science in Computing and Information Science
Coursework: Object-Oriented Programming, Operating Systems, Computer Network, Data Structure

Skills

Operating Systems: Mac OS X, Linux
Programming Languages: Java, Python, Ruby, C, HTML5, CSS3 (Bootstrap), C++
Databases: MySQL, SQLite
Other Tools: Hadoop, MapReduce, Hive, Spark, AWS EMR, Gnuplot, Selenium, Cucumber

Projects

Web Application for People Who Love Cooking *Spring 2017*
- Built a web application for cooking lovers to share and sell their dedicated dishes
- Implemented the whole website using Ruby on Rails and various gems
- Deployed and maintained the website on my own server (Link: http://45.63.69.219/)

Instagram-like Web Application Using Ruby on Rails *Fall 2016*
- Worked on a team of five developers to implement an Instagram-like web application with Ruby/Rails using SQLite
- Designed and implemented a new feature using Microsoft Computer Vision API to auto-tag every picture uploaded
- Led the team on both functional tests (Cucumber) and unit tests (RSpec)
- Developed and maintained View layer of MVC framework using HTML, CSS (Bootstrap)

Price Discrimination Detecting on Travel Agent Websites *Fall 2016*
- Designed a method to detect online price discrimination by using saved cookies in user browser profiles
- Implemented an application to maintain and train user browser profiles in order to convince websites our price queries are from real user
- Wrote crawler script querying flight tickets and hotel stays price by using different user browser profiles
- Analyzed the dataset collected by crawler from five popular travel agent websites during the whole month

Online Merchandizing Web Application *Spring 2016*
- Designed and implemented an online merchandizing web application allowing users to buy and sell products based on Play MVC framework
- Designed and implemented database architecture for application using MySQL, including tables like users, products, product requests, purchase orders, scheduled deliveries and good receipts
- Implemented a Java back-end system supporting sign up, login, manage user groups, post products, place orders and write feedbacks

Experience

Research Assistant, University of Iowa *Aug. 2016 – Dec. 2016*
- Developed an application allowing users to get taxicabs' mobility data during a specific time period from the dataset of one month GPS data of 500 taxicabs' positions obtained by GPS receiver
- Analyzed taxicab mobility data and generated reasonable visual dataset for our event-prediction algorithm's accuracy test
- Participated weekly group meeting to contribute any idea and thought on how to improve the algorithm