Yuanxu (Justin) Li

Phone: 216-333-8911   2116 Lennox Road, Apt #14
E-Mail: yuanxu.li@case.edu   Cleveland Heights, Ohio 44106

Objective

Full Time Software Development Engineer, available to start May 2016

Education

Case Western Reserve University (CWRU), Cleveland, Ohio   **April 2016**
- Master of Science, Computer Science(3.7/4.0)

Courses: Web Data Mining, Introduction to Statistical Computing, Analysis of Algorithms, etc

University of Science and Technology of China (USTC), Hefei, China   **June 2013**
- Bachelor of Science, Physics (3.5/4.3)
- Bachelor of Engineering, Computer Science and Technology (3.9/4.3)

Skills

Languages: Proficient at Python/Java/JavaScript; Familiar with HTML/CSS/SQL/MATLAB; Knowledge in C/C++/Ruby
Tools: Git/SVN, Linux Command Line, Android Studio, MySQL, Eclipse, D3.js, MVC (Angular.js, Play)

Experience

Case Western Reserve University, Department of Electrical Engineering and Computer Science   **Cleveland, OH**

Research Assistant   **December 2014-Present**
- Collaboration between The MetroHealth System and CWRU on Healthy Life HRA (https://www.healthylifehra.org/)
  - Used HTML/CSS, JavaScript and Java to write front-end and back-end of the Web Application, and Java to write the Android Version of HRA
  - Wrote a Web Query Interface to retrieve, analyze and visualize (d3.js) data for users without SQL knowledge

Research Assistant   **August 2013-June 2014**
- Used MATLAB to design a NMF (Non-negative Matrix Factorization) based algorithm to perform dynamic clustering
- Used Python (NLTK) to crawl Twitter data and perform sentimental analysis (TextBlob) in network scale

Teaching Assistant   **January 2014-June 2014**
- Introduction to Database Systems

University Hospitals, Department of Orthopaedics   **Cleveland, OH**

Research Assistant   **June 2014-February 2015**
- Collaboration between University Hospitals and CWRU
  - Used Filemaker Pro to write user interface and scripts to build a database from scratch to import data of over ten years for clinical orthopaedics department, individually

Projects

Computer Science Faculty Miner (CWRU Course Project)   **Cleveland, OH**
- Led a group to use Python (beautiful soup), Java and HTML/CSS to write a pipe-line crawler to find the homepage of CS faculty members and perform clustering analysis

Predict Missing Interactions in Network (CWRU Course Project)   **Cleveland, OH**
- Implemented a variant of shortest-path algorithm using greedy approach to predict missing links in biological networks

Local Network Motifs in Biological Network (Katholieke Universiteit Leuven/USTC Bachelor Thesis)Leuven, Belgium
- Be the first one to propose the conception of Local Network Motifs, and used MATLAB to find local network motifs in the integrated biological network S. Cerevisiae

A Vector View of NMTF and A Framework for Evolutionary Communities (USTC Bachelor Thesis)   **Hefei, China**
- Used MATLAB to illustrate the vector view of NMTF(Non-negative Matrix Tri-Factorization), and propose a framework of tracking evolutionary communities based on this view

One Method of Symmetrization for Spectral Clustering (USTC Course Project)   **Hefei, China**
- Used MATLAB to design a new method of clustering directed graphs outperforming other known methods.