Boston , MA

# RAYMOND YANG

360-448-1920
leiyang@bu.edu

LinkedIn: https://www.linkedin.com/in/lei-yang-293231115
Github: https://github.com/ray-young

Website: http://www.leiyangblog.com

## LANGUAGE & TECHNIQUES

- Programming Languages      Java, Python, Perl, C/C++, JavaScript, HTML
- Techniques      Regex, Data Science, SQL, JQuery, Jerseys, Selenium, AWS, Bash, XML
- Platforms &Tools      Linux, Android, MySQL; Vim, Git

## EDUCATION

**Boston University**      **Boston, MA**
- M.S. in Computer Science      *Sep 2016 – Dec 2017*
- Courses: Advanced Algorithm, Computer Network, Data Science in Python

**Tongji University**      **Shanghai, China**
- B.E. in Software Engineering, Major GPA: 3.76/4.0      *Sep 2011 – June 2015*
- Courses: Software Engineering, Mobile Development, Data Structure, Design Pattern, SOA, Linux System
- 14' Tongji University Academic Scholarship (Top 15%)

## EMPLOYMENT HISTORY

**QAD, Inc., Software Engineer**      **Shanghai, China**
 **Version Control System (Java, Perl)**      *July 2015 – June 2016*
- Created the VCS file control module and system rollback function based on Git
- Enhanced the reliability of the system via implementing webservice for DAO methods
- Designed algorithm to manage executing conflicts by analyzing processes' status and setting up priority queue
- Integrated the system with project management system (Jira) using Restful APIs

**SAP, Developer & QA Intern**      **Shanghai, China**
 **Web Automation Testing Framework (Ruby, Selenium)**      *July 2014 – Oct 2014*
- Implemented the testing framework and automation cases driven by Selenium
- Reduced the system execution time by 50% by utilizing parallel processing technique
- Enabled continuous integration with Bamboo

## TECHNICAL EXPERIENCE

**Industrial Distribution Analyzer and Predictor  (Python, Data Science)**      *Ongoing*
*Role: Principal Developer*
- Designed algorithm to analyze huge XML file (over 10GB) via iterparser and clearing real-time memory
- Programmed model to convert nature language to matrix, and cluster these data using K-Means++ and GMM
- Visualized cluster distribution by plotting a scatter map based of spatial coordinates of data set
- Created Regex to extract core content and display them to users through HTML page
- Predicted the industrial development trend by analyzing huge amount of job posts data from Indeed

**Hetzer Web Crawler (Java)**      *August – Dec 2014*
*Role: Team Leader & Principal Developer*
- Devised Regex to extract web resources, constructed the crawler's engine
- Implemented multi threads to allow downloading various materials at the same time
- Enabled saving login details by fetching the HTML header and analyzing the cookies
- Improved the elasticity of the system by using H2O in-memory database to store data