Boston , MA

LEI YANG

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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: Team Leader & 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: 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