Mengyi Xu

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SUMMARY

> **To obtain a full time Software Engineer position starting in summer 2016**

Bachelor student in Computer Science, specializing in designing, building, and managing software system by using C++ or Python with added emphasis on deep understanding of data structures, algorithms, and system architecture.

SKILLS

- Proficiency with C++, Python, C, Bash, HTML, and CSS
- Experience in Java, JavaScript, Hadoop, Cassandra, Lex, Bison, SQL, Perl, Matlab, and Octave
- Others: proficiency with Qt, Git, and LaTeX
- Language: English and Mandarin

EXPERIENCE

Software Design Engineer, *PCR Primer Design Software,* **UC Riverside, CA**   **May 2015 – June 2016**

- Implemented Hirschberg's Algorithm to replaced Needleman-Wunsch Algorithm, which reduced up to 90% using-space of the software.
- Software version updates and code debugging for the tool PRISE2 for primer/probe design in OFRG project
- Developing Graphical User Interface and function classes of the software to satisfy the requirements of researches using Qt and C++
- Lab main page Design, Implementation, and Maintenance. Launched visually appealing, user-friendly website for the academic purposes

Project Designer, *Senior Design: Twitter Hashtag Analyzer,* **UC Riverside, CA**   **Apr 2016 – June 2016**

- Co-design a crawler by using Twitter stream API and Java to collect about 5G data
- Enhanced skills in processing data with Hadoop and Perl, then storing data into Cassandra
- Created a web interface by using html, CSS, and JavaScript to display Top 5 hashtags on Google Map after specify a day and location

Software Engineer, *Open-source software,* **UC, Riverside, CA**   **Sep 2014 – Dec 2014**

- Implementation of open-source software Mandelbrotex and Eckart Inertias
- Modified and reprogram various Matlab scripts into Octave scripts for the purpose of research
- Wrote tutorials about maintaining the software

EDUCATION

University of California, Riverside   **Sep 2012 – June 2016**

BS, Computer Science   **GPA: 3.49**