Zhiming Zeng (Kate)

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Software Engineering Qualifications

- **Programming Language and Tools:** Proficient in Java and C, dabbled with Prolog, Python, Scheme, ColdFusion, Bash, Matlab, Git
- **Web technology**: JavaScript, SQL, PHP, AJAX, Node.js, HTML/CSS, AngularJS, JQuery, Model-View-Controller
- Strong teamwork and mentorship developed through class projects and mentoring sessions

Computer Science Education

UNIVERSITY OF ROCHESTER   ROCHESTER, NY
Bachelor of Science in Computer Science   *Anticipated May 2017*
- GPA 3.98 (out of 4.0), Dean's List (3 out of 3 semesters)
- Dean's Scholarship Recipient, Continuing Student Scholarship Recipient
- College involvement: Computer Science Undergraduate Organization tutor, Computer Interest Floor tech staff, RocHack member, UR Consulting, Cru Christian Community
- Selected courses:
    The Science of Data Structures, Computation and Formal Systems, Design and Analysis of Efficient Algorithms, Computer Organization, Database Systems

Problem-Solving Class Projects

N-Queens Problem *(view source files on Github)*   **Fall 2014**
- Solved N-Queen problem using two approaches: backtrack, and minimum conflict
- Found a linear time solution for a board size of 5^k

Calculator *(view source files on Github)*   **Fall 2014**
- C program scans arithmetic expressions (in infix notation) and prints out the results
- Reading, scanning and evaluation is done in one seamless process in linear time

Find the Shortest Path in Rochester *(view source files on Github)*   **Spring 2014**
- Created a GUI that lets users choose two points on a map of Rochester to find the shortest path
- Include methods to check if all map data are grabbed and parsed properly from a file
- Algorithms and data structures include: Dijkstra's algorithm, Prim's algorithm, priority queues, graph

Personal Projects

Car-Sharing Website *(view source files on Github)*   **Spring 2015**
- Created a full-stack car-sharing web application that matches car owners to people looking for rides
- Implemented the backend with PHP and MySQL database to allow users to create, join and delete car rides
- Designed the front-end, including CSS layout and AJAX user interaction
- http://zzeng9.rochestercs.org/kaj1125/index.php

Work Experience

UNIVERSITY OF ROCHESTER MEDICAL CENTER   ROCHESTER, NY
Web Programmer   **Spring 2015 - Present**
- Build admin application for healthcare staff to obtain data about HIV medical resources using model-view-controller framework and ColdFusion

UNIVERSITY OF ROCHESTER   ROCHESTER, NY
Teaching Assistant   **Spring 2015 - Present**
- Tutored students data structure concept and implementation in Java and C
- Graded programming assignments