Regina Xu

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EDUCATION

University of California, Berkeley

Bachelor's Degree in Computer Science   Expected May 2018
- Relevant Courses: Data Structures | Discrete Mathematics and Probability Theory | Ruby on Rails
- Activities: CS61A Lab Assistant; Computer Science Mentors; ASUC Mental Health Department

SKILLS

- Working proficiency with Java and Python; familiar with Ruby on Rails, CSS, SQL, JavaScript
- Git, Eclipse, LaTeX, Django

WORK EXPERIENCE

Research IS&T   *Berkeley, CA*

Undergraduate Research Assistant   *06/2015 – Present*
- Implemented improvements and bug fixes to the Collection Space web applications with Django and JIRA
- Created automated tests for the web applications using Capybara and Cucumber
- Integrated Google Analytics tracking on the various Collection Space web applications

BEAR Center   *Berkeley, CA*

Undergraduate Research Assistant   *02/2015 – 05/2015*
- Executed manual test cases for an educational assessment web application
- Tracked result of testing web application features on Smartsheet
- Logged and verified defects using Axosoft "OnTime", a project management and bug tracking system

COURSE PROJECTS

FarmVillage (https://github.com/reginax/proj2)   *BootStrap, Ruby; Ruby on Rails DeCal SP '15*
- Created a Web Application using Ruby on Rails and gems including gritter, simple_form, and Devise
- Integrated Bootstrap and learned basic HTML and JavaScript for the views

Autocomplete   *Java, JUnit; CS61B SP '15*
- Implemented the Autocompletion feature (including topMatch and topMatches) for a given set of terms
- Utilized generics and data structures (mainly a Ternary Search Trie and priority queue)

Gitlet   *Java, JUnit, I/O Streams; CS61B SP '15*
- Created a smaller-scale Git system with underlying HashMap and LinkedList data structures
- Implemented file serialization and manipulations, and optimized methods under runtime constraints

NGramMap   *Java, XChart, Princeton Standard Library; CS61B SP '15*
- Created a package containing various data structures and a UI that graphically displays the history and frequency of words in text files
- Integrated data structures (both existing and self-created classes), generics, packages, and JUnit testing

Scheme Interpreter   *Scheme, Python; CS61A FA '14*
- Implemented an interpreter for Scheme in the Python language
- Integrated functional programming concepts and test-driven development