OLIVIA CHEN

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http://occhen11.github.io

EDUCATION

University of California, Berkeley
B.A. Computer Science, expected May 2016
GPA 3.7

Relevant Coursework

Intro to Computer Programming	Signals & Systems
Data Structures	Linear Algebra & Differential Equations
Computer Architecture	Discrete Mathematics & Probability

SKILLS

Languages

- Proficient in Java, MATLAB
- Experience in HTML, CSS, C, MIPS

Miscellaneous

- GIMP, Windows, LaTeX, Emacs, MapReduce/Hadoop, AWS EC2, Git

PROJECTS

Connect N (2014)

- Java-based game that utilizes MapReduce/Hadoop framework and large-scale, parallel computing to generate extensive minimax game trees for AIs in games of Connect N (loosely based on Connect Four)
- Run on Amazon Web Services Elastic Compute Cloud (AWS EC2)

Graph API (2013)

- Java API for creating, using, and traversing graph data structures
- Built a GPS-like, route-planning trip application that uses the graph package and A* search to determine the shortest route through multiple locations
- Implemented a simplified version of the GNU MAKE program that utilizes topological sort to organize dependencies and determine the optimal order for executing Makefile commands.

Jump61 (2013)

- Java-based two-player command-line game based on KJumpingCube
- Utilized minimax game trees and alpha-beta pruning to develop an efficient, quick-reacting AI that can force winning positions, if possible, within four moves.
- Customizable game settings for experimentation and free-play (i.e. starting game with pre-set moves, setting the random seed used by the AI, etc.)

GENERAL WORK EXPERIENCE

ERSO Administrative Assistant, Berkeley, CA — Aug 2012 - present
- Assist in preparing reimbursements, maintaining inventory, and planning events among other duties to support faculty
- Demonstrate communication and organizational skills in meeting multiple deadlines and coordinating with team members

Lab Intern at SJSU Cheruzel Lab, San Jose, CA — Summer 2011
- Optimized protein-labeling of variant P450 enzymes for maximal reaction yield
- Analyzed data primarily using mass spectrometry
- Presented work at Synopsys Science & Technology fair in Santa Clara (2012)

Accounting Assistant at Nationwide Tax & Accounting, Sunnyvale, CA — Dec 2008 - May 2012
- Prepared tax returns and performed routine data entry
- Interacted with clients in both English and Mandarin Chinese