Jennifer Dai

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Education

Class of 2015   **UC Berkeley**   B.A. Computer Science 3.67, B.A. Mathematics 3.74
Related Coursework: Structure and Interpretation of Computer Programs, Data Structures, Machine Structures, Algorithms, Probability, Discrete Mathematics, Linear Algebra

Languages

In order of comfort: Java, Python, C, Scheme, R
Front-end languages: HTML5, CSS3, Javascript

Work Experience

UC Berkeley Undergraduate Research Apprenticeship Program   **Summer 2012-Spring 2013**
Isolated specific trends in the chromosome arms of those with breast cancer to statistically relate different phenotypes.
Technical skills: Python, R
UC Berkeley Student Learning Center   **Summer 2012-Summer 2013**
Tutored students privately in math courses and helped teach study groups of 50 students upwards.
Marvell Semiconductor Inc.   **Summer 2010**
Processed internal customer data.

Selected School Projects

Scheme Interpreter   **July 2013**
Wrote an interpreter in Python and Scheme
Sliding Block Puzzle   **July 2013**
Used Eclipse, JUnit Tests, Java to optimize a sliding block puzzle solver.
https://www.dropbox.com/sh/gztn7xy6hbdkqon/Ma_PKlw9_z
MapReduce   **September 2013**
Used EC2, Hadoop, Java to calculate the statistical co-occurrence of all the words in a corpus.
https://www.dropbox.com/sh/tr1ofvbkyrzqpz7/h98O2dCnah
Image Processing   **September 2013**
Played with C, SIMD, Open MP to optimize an image convolution algorithm.
https://www.dropbox.com/sh/1qy5k5uybobhcat/uszZGzHOwB
CPU   **September 2013**
Built a simplified CPU using Logisim.

Personal Projects

Jenniferdai.com   **September 2013**
Created a personal website from scratch using HTML5, CSS3, and Javascript.
Set Cheat   **September 2013**
Wrote Javascript with a friend to cheat at multiplayerset.com.
https://www.dropbox.com/sh/jtlrqowyloqighs/UKKXr2oGGs
Captcha Reader   **October 2013**
Teamed up at the CSUA Hackathon to write a Captcha Reader in Matlab.
Typing Web Application   **November 2013**
Teamed up at the hackers @ Berkeley Hackathon to write a multiplayer typing web application using Javascript.

Clubs

Professional Development Committee Chair- Upsilon Pi Epsilon   **Fall 2013-Current**
Started and led a tutoring program as part of the computer science honors society on campus.
Cal Running Club   **Fall 2011-Current**
Tear up the roads on a weekly basis.