

# 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/9v7lvqnygx5j76z/egkGT8EWby>

**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/trlofvbkryzqpz7/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 multiplayer.set.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

**Upsilon Pi Epsilon**      **Fall 2013-Current**  
Computer Science Honors Society on campus.

**Cal Running Club**      **Fall 2011-Current**  
Tear up the roads on a weekly basis.