

# Jennifer Dai

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## UC BERKELEY

GRADUATING SPRING 2015, B.A. COMPUTER SCIENCE, MATHEMATICS, GPA: 3.4

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### Coursework

*Computer Science/Math*: Structure & Interpretation of Computer Programs, Data Structures, Machine Structures, Algorithms, Computer Security, Computer Architecture, Discrete Mathematics, Probability, Linear Algebra, Real Analysis, Operating Systems (current), Signals and Systems (current)

*Hard Sciences*: General Chem Lec/Lab, General Biology Lec/Lab, Organic Chemistry I Lec/Lab, Organic Chemistry II, Nutritional Science, Physics I (current)

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## EXPERIENCE

### Google

May-August '14

- Designed and developed the real-time conversion estimation factor module in Google's mobile advertising product.
- C++, xml

### CS Scholars Mentor

Jan-May '14

- Mentored Computer Science to diverse UC Berkeley students.

### UCB Undergraduate Research Apprenticeship Program

June '12- Jan '13

- Isolated specific trends in the chromosome arms of breast cancer patients to statistically relate different phenotypes. Supervisors: Rainer Sachs and Javier Arsuaga.
- Python, R

### UCB Student Learning Center Math Instructor

June '12-13

- TA for UC Berkeley math study groups & private tutor for university math classes

### Marvell Semiconductor Inc.

May-August '10

- Global sales order processing and product ship fulfillment.

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## PERSONAL PROJECTS

Typing Web Application (Javascript)

November '13

Captcha Reader (Matlab)

October '13

JenniferDai.com (HTML5, CSS3, Javascript)

September '13

Set Cheat (Javascript)

September '13

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## SELECTED SCHOOL PROJECTS

Priority Scheduler(C)

September '14

Shell Implementation(Bash, C)

August '14

Issue Select Policy Design (C++/Scala)

April '14

Secure Metadata-Extraction tool for PNG and JPEG-Exif (C)

March '14

Cache Optimization (C++/Scala)

Feb '14

CPU (Logisim)

September '13

Image Convolution Optimization (C, SIMD, Open MP)

September '13

Statistical Co-Occurrence MapReduce (EC2, Hadoop, Java)

September '13

Puzzle Solver Optimization (Eclipse, JUnit, Java)

July '13

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## PROFESSIONAL CLUBS

Hackers at Berkeley

Fall 2014

Upsilon Pi Epsilon (CS Honors Society)

Fall 2013-Current

- Vice President: Mentored candidates for initiation. Planned a game hackathon. Professional events with industry.
- Professional Development Chair: Created a tutoring program for other CS students.

Women in Mathematics

Spring 2014-Current

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## RECREATIONAL CLUBS

Cal Cycling (Club)

Fall 2014

IM Dodgeball (Team Captain)

Fall 2014

Cal Running Club

Fall 2011-Current