Jennifer Dai

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UC BERKELEY **GRADUATING FALL 2015, B.A. COMPUTER SCIENCE**

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, Signals and Systems, Compilers(current), Artificial Intelligence(self-studying), Databases(current), Digital Signal Processing(current)
Hard Sciences: General Chem Lec/Lab, General Biology Lec/Lab, Organic Chemistry I Lec/Lab, Organic Chemistry II, Nutritional Science, Physics I

EXPERIENCE

Google   May-August '14
- Designed and developed the real-time conversion estimation factor module in Google's mobile advertising product.
- C++, xml

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

CS Scholars Mentor   Jan-May '14
- Mentored Computer Science to diverse UC Berkeley students.

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.

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

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

PROFESSIONAL CLUBS

Upsilon Pi Epsilon (CS Honors Society)   Fall 2013-Current
- President: Spearheaded a program to empower women in CS, also created community outreach program.
- 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

RECREATIONAL CLUBS

IM Dodgeball (Team Captain)   Fall 2014
Cal Running Club   Fall 2011-Current