# Yifat Amir

(408) 489-6894 | yifatamir@berkeley.edu | Berkeley, C.A.

## EDUCATION

**UNIVERSITY OF CALIFORNIA, BERKELEY**

**Bachelors in Computer Science and Economics (double major), *Junior, GPA: 3.67***

Spring 2016 courses: *Probability Theory and Combinatorics, Computer Architecture (languages: C, MIPS), Econometric Analysis*

Completed courses: *Algorithms & Intractable Problems****,*** *Discrete Math & Probability Theory****,*** *Data Structures & Algorithms****,*** *Interpretation of Computer Programs****,*** *Behavioral Economics****,*** *Natural Resource Economics****,*** *Industrial Organization****,*** *Intermediate Microeconomics****,*** *Macroeconomics****,*** *Multivariable Calculus****,*** *Linear Algebra & Differential Equations****,*** *and Probability & Statistics****.***

## SKILLS & QUALIFICATIONS

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| * Programming languages: Python, Java, J.S., Scheme, SQL * Experienced with Git and collaborative development * Experienced with Adobe Flash, Premiere, and Soundbooth * Experienced with teaching, tutoring, and public speaking * Experienced with developing educational curricula * Quick learner, independent, punctual * Resourceful, punctual, collaborative, and enthusiastic * Strong intellectual curiosity, quick learner, team player * Experienced with Excel, PowerPoint, Salesforce.com * Excellent project management and communication skills * Languages spoken: English, Hebrew, Spanish | * Past individually completed class projects:   1. Implemented Git (a version control software) in Java: supports 15 commands including branch, merge, and rebase.  2. Created a general purpose Scheme interpreter in Python: uses a recursive read-eval-print loop; supports special forms. |

**WORK EXPERIENCE**

**BEAUTY AND JOY OF COMPUTING (B.J.C.), *BERKELEY, CA***

**Software Developer***, May 2015 – Present*

* Developed a suite of autograding tools in Java & J.S. for “Snap!”, a visual drag-and-drop programming language.
* Implemented autograding software for BJCx, an international online introductory computer science course on edX with 12,000+ students.
* Mapped and categorized all BJCx lab activities, identifying unique “Snap!” exercises that pose non-traditional grading challenges.
* VS. Implemented autograder software for BJCx, identifying and addressing lab exercises that pose non-traditional grading challenges. B.J.C. is an AP C.S. Principles curriculum endorsed by the College Board and offered internationally on edX (12,000+ students).

**COMPUTER SCIENCE DEPARTMENT OF U.C. BERKELEY, *BERKELEY, CA***

**C.S. 10 Undergraduate Student Instructor, Reader, Lab Assistant***, August 2014 – Present*

* Taught a recitation class for 30 students, reviewing practice problems and reinforcing fundamentals; and held weekly office hours.
* Developed rubrics for and graded homework assignments, programming projects, and exams.
* Helped students acquire programming skills through assisting during laboratory hours.
* Participated in planning and leading weekly discussion sections as a T.A. in Training.
* Assisted in lab content development by creating lab quizzes and solution guides.
* Assisted in pedagogical planning. VS.
* Taught a recitation class (30 students), held weekly office hours, and participated in pedagogical planning/content development.
* Developed rubrics for and graded homework assignments, programming projects, and exams.
* Helped students acquire programming skills through assisting during laboratory hours.

**RESIDENTIAL SUSTAINABILITY PROGRAM OF U.C. BERKELEY, *BERKELEY, CA***

**Project Coordinator***, April 2014 – May 2015*

* Planned and implemented educational campaigns and projects to promote sustainable living practices in the Residence Halls.
* Designed, led, and analyzed waste diversion audits in the residence halls in order to create customized educational curricula.
* Oversaw evaluation and assessment procedures of campaigns and programs.

**AMERICAN ISRAEL PUBLIC AFFAIRS COMMITTEE (A.I.P.A.C.), *SAN FRANCISCO, CA; WASHINGTON D.C.***

**Summer Intern,** *Summer 2014*

* Assisted in organizing a national student conference in Washington D.C. and led a briefing event for Bay Area political interns.
* Acquired leadership and communication skills; met with senators, representatives, and other policy-makers on Capitol Hill.
* Enlarged the regional donor base and boosted community outreach through event planning and direct communications.
* Prior experience: Bay Area Student Delegate at Policy Conference 2014 & 2015, Northern California Summit 2013, Schustermann Advocacy Institute High School Summit 2011.

**MATH TUTORING (SELF-EMPLOYED), *SAN JOSE, CA***

**Private Math Tutor***, October 2011 – November 2014*

* Tutored up to nine students (grades 2-12) weekly, providing practice problems, creating quizzes, and reinforcing material.

**GLOBAL HEALTH RESEARCH FOUNDATION (G.H.R.F.), *STANFORD, CA***

**Summer Intern, Patient Outcomes and Environmental Monitoring System (P.O.E.M.S.) Project***, Summer 2012*

* Designed wireframes for the U.I. of an Android mobile application which improves data collection and retrieval in Bhutan. Data includes healthcare records and environmental sensory readings. [The project has been deployed by the ministry of Bhutan.]
* Scripted, storyboarded, filmed, and edited three user-specific tutorial videos for rangers, healthcare workers, and general users.
* Received the Global Service Award 2012 for my contributions.

## LEADERSHIP EXPERIENCE

**ISRAELI CULTURE CLUB (“MISHELANU”), *BERKELEY, CA***

**President, Communications and Marketing Chair***, February 2015 – Present*

* Plans and leads social, cultural, and educational events for Israeli and Israeli-American students in Berkeley.

**CAL ALUMNI STUDENT ASSOCIATION (CASA), *BERKELEY, CA***

**Venue Coordinator***, September 2013 – May 2014*

* Booked and organized venues for large-scale networking events connecting Cal alumni to current student leaders on campus and for the Overnight Stay Program (OSP), which presents Cal to hundreds of prospective freshmen.
* Participated in leadership and professional development workshops.

**PUEBLO INGLES, *CORDOBA, SPAIN***

**English Teacher***, Summer 2012*

* Taught conversational English to Spanish teens through language-immersive programming and one-on-one lessons.

**THE DAVID PROJECT FELLOWSHIP, *BERKELEY, CA***

**Student Fellow***, November 2013-Present*

* Engaged numerous students from diverse communities on campus on a weekly basis in positive dialogue about Israel.
* Attended leadership trainings with Hillel/campus faculty.

## SCHOLARSHIPS & AWARDS

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| * IBM Thomas J. Watson Memorial Scholarship 2014-2017 * Saratoga Rotary Club Scholarship 2013 * Kiwanis Club of Los Gatos Scholarship 2013 * Susie Nagpal Scholarship for Promising Leaders 2013 * Saratoga High School Community Service Award 2013 | * Cal Alumni Ass. Leadership Scholarship 2013, 2014, 2015 * Horace M. Albright Scholarship 2013 * District Teacher’s Association Scholarship 2013 * Saratoga High School Graduate with High Honors 2013 * Shonk Memorial Scholarship 2013 |

## REFERENCES

1. Dr. Dan Garcia: EECS Professor; Founder of Beauty and Joy of Computing [ddgarcia@cs.berkeley.edu](mailto:ddgarcia@cs.berkeley.edu) (510) 517-4041
2. Dr. Joshua Hug: EECS Professor; C.S. 10 Lecturer Fall 2015 [hug@cs.berkeley.edu](mailto:hug@cs.berkeley.edu) (510) 301-5836
3. Cathy Leather (???)