

Jeffrey Li

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<u>Education</u>	University of California, Berkeley, Berkeley, CA	2015-2018 (expected)
	B.A. Computer Science, GPA: 3.80/4.00	
<u>Academic</u>	National Merit Finalist	2015
<u>Honors</u>	Scored in the top 1% of PSAT test takers.	
	AP Scholar with Distinction	May 2013
<u>Projects</u>	Tennis at Cal Website	Fall 2016
	I wrote the code for and designed the Tennis at Cal website using HTML, CSS, and jQuery. The website provides information on practices, tournaments, registration, and a biography for each of the officers. I implemented a navigation button that shows all options to navigate to by shifting the website when clicked on, as well as a carousel of pictures of people involved in the club from past semesters.	
	Drum Machine	Summer 2016-Present
	Using byte-arrays, JavaFX, linked-lists, and WAV files, I created a drum-machine that the user that use to create beats composing of open and closed-hihats, snares, kicks, and claps that are played at different tempos. The user can select which sound he wants played 16 different beats. By fusing the byte-arrays of each WAV file instead of using threads, the user can play the sounds without causing delay or lag. I plan to add functionality to allows the user to upload his own sounds to accompany the drum-machine.	
	BearMaps	Spring 2016
	Using a quad-tree that contained pictures of the city of Berkeley and the A* search algorithm, I created a working shortest-path finder between any two locations in Berkeley. Each building/important landmark on the map served as a node, and each street served as a link between landmarks. Also, by using a trie, I implemented an auto-search for the map that allowed the user to look up the names of the landmarks on the map.	
	Text Editor	Spring 2016
	Using JavaFX and a doubly-linked list, I created a working text editor that allowed the user to type, delete, start a new line, and use the mouse and cursor to reposition the typing cursor. I also implemented open and save functions to allow the user to save and re-open his work, as well as window-resizing.	
	Scheme Interpreter	Fall 2015
	Using Python, my partner, Andrew Martinez, and I wrote an interpreter that is able to read Scheme code. Scheme is a language that revolves around lists and pairs, so by utilizing classes that represent a pair and the "nil" object in Scheme, I created syntax reader and evaluator functions that allowed the user to type in Scheme.	
<u>Skills</u>	Programming: Python, SQL, Java, HTML, CSS	
<u>Courses</u>	CS61A (Structure and Interpretation of Computer Programs), Math 54 (Linear Algebra), CS61B (Data Structures), CS70 (Discrete Math and Probability Theory), Multivariable Calculus	
<u>Interests</u>	Tennis, College Basketball, Chance the Rapper.	