

# Andrew Lorber

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EDUCATION	<b>The Cooper Union for the Advancement of Science and Art</b> , New York, NY 2018   2022 <i>BE in Electrical Engineering, Concentration in Computer Engineering</i> , GPA: 4.00/4.00 Relevant Courses: Digital Logic Design, C Programming, Data Structures & Algorithms	
	<b>Ramaz Upper School</b> , New York, NY 2013   2017 GPA: 3.8/4.0, AP Java: 5, AP Physics: 5, ACT: 36 Gorfinkle/Waldman Award for Outstanding Work in the Study of Computer Science	
WORK EXPERIENCE	<b>Cooper Union Summer STEM Program</b> , <i>Teaching Assistant</i> New York, NY	Summer 2019
	<ul style="list-style-type: none"><li>• Collaborated with three other teaching assistants to plan a six-week web application development curriculum for twenty-four students.</li><li>• Created presentations and taught classes on web application development, including lectures on JavaScript, React, HTML, &amp; CSS.</li><li>• Assisted six groups of students on the design and development of their web applications which will support one of the UN's Sustainable Development Goals.</li></ul>	
	<b>KeyMe</b> , <i>Front-End Programming Intern</i> New York, NY	Summer 2017
	<ul style="list-style-type: none"><li>• Revamped shopping cart navigation by determining underlying bug, investigating alternatives, and implementing solution to increase product stability.</li><li>• Created end-to-end easter-egg coupon experience to incentivize purchase.</li><li>• Collaborated with the front-end team to become familiar with new codebase and tools.</li></ul>	
PROJECT WORK	<b>Guess The Song</b> , <i>Independent</i>	Winter 2019
	<ul style="list-style-type: none"><li>• Built web version of a song guessing game I play with friends using Node.js, JavaScript, and the Spotify Web API to hone my back-end development skills.</li><li>• Code can be viewed at <a href="https://github.com/alorber/Guess-The-Song">https://github.com/alorber/Guess-The-Song</a>.</li></ul>	
	<b>Don't Break the Ice</b> , <i>Digital Logic Design, Cooper Union</i>	Fall 2018
	<ul style="list-style-type: none"><li>• Designed, prototyped, built, and tested puzzle game using integrated circuits and LEDs with Logisim, breadboards, and a perfboard.</li><li>• Wrote technical report and presented project detailing end-to-end design process.</li></ul>	
	<b>Brake Dynamometer</b> , <i>Engineering Design and Problem Solving, Cooper Union</i>	Fall 2018
	<ul style="list-style-type: none"><li>• Continued development of a brake dynamometer, which allows the Cooper Union Formula team to collect data on the car's brakes, using machining tools such as a dremel, lathe, and mill.</li><li>• Researched possible sensor and motor integrations, and implemented design in a group of four using an arduino, hall effect sensor, IR temperature sensor, and motor.</li><li>• Presented weekly progress report to class and wrote technical report detailing the entire design process.</li></ul>	
	<b>Ramaz Artist Project</b> , <i>Independent</i>	Spring 2017
	<ul style="list-style-type: none"><li>• Built <a href="http://artistproject.ramaz.org">http://artistproject.ramaz.org</a> for an art web series using self-taught JavaScript, HTML, CSS, JQuery, and Bootstrap.</li><li>• Collaborated with head of project on design and content of website.</li></ul>	
LEADERSHIP EXPERIENCE	<b>Cooper Union Hillel</b> , <i>Event Coordinator</i> New York, NY	Fall 2018   Fall 2019
	<ul style="list-style-type: none"><li>• Manage logistics to ensure that monthly events run smoothly for over thirty students.</li><li>• Collaborate with board members to determine roadmap for semester's event programming.</li></ul>	
SKILLS	<b>Programming:</b> JavaScript, C++, Java, Node.js, React, C, HTML, CSS, Bootstrap, JQuery, Jekyll <b>Software:</b> Microsoft Office, AutoCAD, SolidWorks <b>Languages:</b> Hebrew (Proficient) <b>Hobbies:</b> Reading, Taekwando, Theater, Board Games, Crossword Puzzles	