Andrew Lorber

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EDUCATION

The Cooper Union for the Advancement of Science and Art, New York, NY   2018 | 2022
BE in Electrical Engineering, Concentration in Computer Engineering, GPA: 4.00/4.00
Relevant Courses: Digital Logic Design, C Programming, Data Structures & Algorithms

Ramaz Upper School, 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

KeyMe, *Front-End Programming Intern*   Summer 2017
New York, NY
- Revamped shopping cart navigation by determining underlying bug, investigating alternatives, and implementing solution to increase product stability.
- Created end-to-end easter-egg coupon experience to incentivize purchase.
- Collaborated with the front-end team to become familiar with new codebase and tools.

Camp Seneca Lake, *Sleep-away Camp Counselor*   Summer 2016
Honesdale, PA
- Crafted exciting programming to engage group of twenty-one fifteen-year-old boys.
- Supervised campers with one other counselor for eight weeks to ensure their safety.

PROJECT WORK

Guess The Song, *Independent*   Winter 2019
- 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.
- Code can be viewed at https://github.com/alorber/Guess-The-Song.

Don't Break the Ice, *Digital Logic Design, Cooper Union*   Fall 2018
- Designed, prototyped, built, and tested puzzle game using integrated circuits and LEDs with Logisim, breadboards, and a perfboard.
- Wrote technical report and presented project detailing end-to-end design process.

Brake Dynamometer, *Engineering Design and Problem Solving, Cooper Union*   Fall 2018
- 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.
- 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.
- Presented weekly progress report to class and wrote technical report detailing the entire design process.

Ramaz Artist Project, *Independent*   Spring 2017
- Built http://artistproject.ramaz.org for an art web series using self-taught JavaScript, HTML, CSS, JQuery, and Bootstrap.
- Collaborated with head of project on design and content of website.

LEADERSHIP EXPERIENCE

Cooper Union Hillel, *Event Coordinator*   Fall 2018 | Fall 2019
New York, NY
- Manage logistics to ensure that monthly events run smoothly for over thirty students.
- Collaborate with board members to determine roadmap for semester's event programming.

SKILLS

Programming:	JavaScript, Java, C++, Node.js, JQuery, HTML, CSS, Bootstrap, Bash, C, Python
Software:	Microsoft Office, AutoCAD, SolidWorks
Languages:	Hebrew (Proficient)
Hobbies:	Reading, Taekwando, Theater, Board Games, Crossword Puzzles