

# 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: 3.89/4.00*  
IEEE - Eta Kappa Nu, Tau Beta Pi, Dean's List (All Semesters), Summa Cum Laude  
Jesse Sherman Award for an excellent academic record & superior electrical engineering lab work

## WORK

- Facebook**, *Front-End Engineering Intern* Summer 2021
- Developed a new unified internal app health tooling experience to simplify developers' workflows.
  - Migrated tools' persistence layer to GraphQL to provide convenient and uniform data access.
  - Collaborated with another intern on overlapping project areas to build reusable React components to provide consistent dashboard experience and reduce extraneous work.
  - Demoed new tooling experience to internal users and based on their feedback made updates and provided input into the team's feature roadmap.
- Robotics Crash Course**, *Cooper Union STEM Program, Teaching Assistant* Summer 2020
- Planned curriculum with three others for two three-week remote sessions of twenty students.
  - Taught lessons on various C++ topics, and assisted students on the design and development of their car's object avoidance algorithm.
- CS for Social Good**, *Cooper Union STEM Program, Teaching Assistant* Summer 2019
- Collaborated with three other teaching assistants to plan a six-week web application development curriculum for twenty-four students.
  - Created presentations and taught classes on JavaScript, React, HTML, & CSS, while assisting six groups of students on the design and development of their web applications.
- KeyMe**, *Front-End Intern* Summer 2017
- 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.

## PROJECTS

- CU NFT Marketplace**, *Senior Project, Cooper Union* Spring 2022
- Built prototype NFT marketplace for the CU by planning core features and functionality with professors and iterating on design based on discussions with current students.
  - Designed Ethereum smart contracts in Solidity that control the minting of NFTs and marketplace functionality, and developed marketplace frontend in React with MetaMask integration for Ethereum wallet access and IPFS integration for NFT data storage.
- Mixx**, *Databases, Cooper Union* Fall 2021
- Built a home-bartending website that allows users to view and search a database of cocktails and ingredients, and view possible cocktails given the ingredients they have on hand with React, Python Flask, & MongoDB.
  - Scraped and cleaned cocktail & ingredient data from various sources with Python scripts.
- Checkers AI**, *Artificial Intelligence, Cooper Union* Fall 2019
- Created a checkers playing AI in C++ by implementing a minimax search with alpha-beta pruning and iterative deepening.
  - Built a checkers game with an ASCII interface that allows users to start a new game, load a custom board, play the AI, or have the AI play against itself.

## LEADERSHIP

- Cooper Union Hillel**,  
*President (Fall 2020 - 21), Vice President (Fall 2019 - 20), Event Coordinator (Fall 2018 - 19)*
- Worked with co-president to lead monthly meetings, finalize event details, and ensure all club programs are properly managed.
  - Collaborated with board members to determine road-map for semester's event programming and managed logistics to ensure that monthly events ran smoothly for over thirty students.

## SKILLS

**Programming:** React, JavaScript, Python, Solidity, MongoDB, C++  
**Hobbies:** Reading, Board Games, Crossword Puzzles, Mixology, Theater