

# Matan Kotler-Berkowitz

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## EDUCATION

**University of Rochester** - *B.S. Computer Science, B.A. Political Science* Expected May 2025

- 3.9 GPA; Dean's List all eligible semesters

## EXPERIENCE

### Internships

**JusticeText** - *Full-Stack Software Engineering Intern* Summer 2022

- Spearheaded widely-used features for the JusticeText platform, an evidence-management software for public defenders, including scalable transcript reindexing and backups, streamlined notifications, and user payment history.

**Red Hat** - *Software Engineering Intern* Summer 2020 & Summer 2021

- Developed key features for ChRIS, a medical technology application, and Mass Open Cloud, a public cloud computing platform, in collaboration with a team of researchers, developers, and designers.
- Engineered features including a graphical interface to simplify data processing pipelines, browser-based viewers for medical data files, and server usage visualizations.

**Citizens for Juvenile Justice** - *Policy and Research Intern* January - May 2021

- Conducted research, data analysis, and visualization, and policy writing on juvenile justice and other youth-focused issues.

**Anti-Defamation League** - *Advocacy and Research Intern* September-December 2020

- Worked on a wide variety of tasks and projects, including legislative advocacy on issues around police reform and digital harassment; anti-bias and anti-bullying education; legal, policy, and other research; and communications.

### University of Rochester

**RocLab (Student-Led Software Consultancy)** - *Full-Stack Software Engineer* Spring 2023 - Present

- Architected key features for Unicycle, a campus-based e-commerce platform, including responsive mobile designs for main application pages, listing editing and reporting, and views tracking.

**Computer Science Department (University of Rochester)** - *Teaching Assistant* Spring 2023

- Led workshop group for Data Structures and Algorithms course, teaching topics including asymptotic analysis, recursion, dynamic programming, graphs, trees, and other data structures.

**Horizon Research Lab (University of Rochester)** - *Research Assistant* Spring 2022 - Present

- Engineered an interactive virtual reality viewer for Resurrect3D, a browser-based modeler.
- Integrated and extended a raytracing-based neighbor-search algorithm with Triforce, a physics simulation engine

### Freelance Software Development & Consulting

**OBR Investing** - *Freelance Software Engineer* April 2023

- Identified and fixed software errors in a Discord bot that prevented new customer signups.

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**Torah Godly Play** - *Freelance Software Engineer* November - December 2022

- Created a 15-page Squarespace website, managed domains and payments

**AndrewPessin.com** - *Freelance Web Developer* May - June 2021

- Designed and developed a custom WordPress website for author Andrew Pessin.

**Gabe's Bar Mitzvah Website** - *Freelance Web Developer* February 2021

- Designed and developed a single-page invitation website for a bar mitzvah event.

**Mind App** - *Freelance Mobile App Developer* February - May 2021

- Engineered new features and bug fixes for Mind App, a React Native-based athlete mental health tracking app.

**Riverside Lactation Center** - *Freelance Software Engineer* April 2021

- Engineered backend solution to parse, format, and deliver custom patient form data to medical specialists.

**Programming Tutoring** Fall 2020

- One-on-one tutoring sessions for middle schoolers, focusing on web design and development.

**Harlow Group** - *SSL Certificate Installer* June 2016 - August 2016

- Migrated two websites to HTTPS by installing SSL certificates and transitioning WordPress installations.

**Temple Beth Shalom** - *Freelance Software Engineer* May - June 2019

- Developed user-friendly macros to enable temple administrators to rapidly generate community calendars and populate with important dates, saving hundreds of hours of manual work.

**Family Law Software** - *Web Developer & Email Marketer* 2017 - 2018

- Designed and developed modern, responsive redesign of public-facing website with dozens of pages; integrated with legacy backend.
- Created email marketing campaign of twenty emails; wrote marketing text, designed email layout, and managed database of email addresses.

## Volunteer Work

**RagTag** - *Volunteer Web Developer* January - May 2021

- Implemented key components for a custom Wordpress theme for FreeFrom, a domestic-violence victims support organization.

**JCDS Boston** - *Volunteer Educator & Technology Consultant* 2019 - 2020

- Designed and co-taught a two-year middle-school elective programming course. Created instructional material and led students through the conceptualization, design, and implementation of programming projects.
- Provided technical support and consultation for virtual-reality learning experiences.

**Code for Boston** - *Volunteer Software Engineer* May - September 2020

- Worked with a team of volunteers to contribute new features and bug fixes to the Social Security Benefit Calculator, a civic technology project backed by Congressman Seth Moulton.

**Code for Social Good** - *Web Developer & Systems Manager* 2017 - 2018

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- Contributed to a WordPress website encouraging young women to explore computer science; created custom pages, managed plugins, users, WordPress installations, database configurations, and domains.

**Association for the Social Scientific Study of Jewry** - *Volunteer Web Developer* March-May 2018

- Designed and built a new website for the organization, migrating all content from the previous website and integrating with a legacy backend.

## PROJECTS

**MyGann+** ([link](#)) - A browser extension which adds a large series of enhancements, new features, and fixes to the Learning Management System used at Gann Academy; used by over 90% of students.

**Mock Trial Rules of Evidence** ([link](#)) - Rewrote mobile application in SwiftUI, added features including content-aware search and dynamically updated information.

**Mock Trial Timekeeping** ([link](#)) - A web application to help timekeeping for mock trial tournaments

**T’Feeling** ([link](#)) - A web application which encourages people to make, share, and be inspired by connections between t’fillot (Jewish prayers) and their emotions. Winner of honorable mention, Powered by Sefaria Contest 2020.

**Drive Organizer for Google Drive™** ([link](#)) - A web application which enables users to rapidly organize files in Google Drive.

## LEADERSHIP EXPERIENCE

**University of Rochester Mock Trial**

- Vice President (2023-2024): Supported the president and the executive board in accomplishing the competitive, educational, and social goals of the sixty-member, nationally-ranked organization.
- Tournament Director (2022-2023): Organized 250+ person tournament, managing dozens of team members and volunteers.

**Gann Academy Theater Club**

- Technical Director (2019-2020): Recruited and oversaw all crew members for two theater productions; helped organize and lead weekly club meetings.

## PUBLICATIONS

Matan Kotler-Berkowitz and Elijah Wiesman, “Inconsistent With Youth: Equal Protection, Cruel and Unusual Punishment, and the Issue of the Incurability Standard”. University of San Francisco Law Review Forum, 2020.

Joshua Dankoff and Matan Kotler-Berkowitz, “Too Blue: A Vision for Non-Police Responses to Community Incidents in Boston”. Citizens for Juvenile Justice, 2020.

## TECHNICAL SKILLS

HTML, CSS, JavaScript, TypeScript, ReactJS, React Native, NodeJS, MondoDB, PostgreSQL, Java