Matan Kotler-Berkowitz

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EDUCATION

University of Rochester - *B.S. Computer Science, B.A. Political Science*   Expected May 2025
- 3.93 GPA; Dean's List all eligible semesters
- Workshop Leader, Data Structures and Algorithms
- Vice President, Mock Trial

EXPERIENCE

Horizon Research Lab (University of Rochester) - *Research Assistant*   January 2022 - May 2023
- 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.

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 search reindexing, transcript edit history and backups, streamlined notifications, and user payment history.

Red Hat - *Software Engineering Intern*   Summer 2020 & Summer 2021
- Implemented key features for ChRIS, a medical technology application, and Mass Open Cloud Curator, a public cloud computing platform, including a graphical interface to simplify data processing pipelines, browser-based viewers for medical data files, and server usage visualizations.

Freelance Software Development & Consulting   January 2018 - Present
- Designed and developed modern, responsive websites for clients including Family Law Software, Gann Academy, and the Association for the Scientific Study of Jewry.
- Engineered custom software solutions for clients including Temple Beth Shalom, and the Riverside Lactation Center, including a transfer student orientation platform, medical form generation, government data scraping, and automated calendar creation.
- Designed and co-taught middle-school elective programming course with twenty students

PROJECTS

MyGann+ (link) - A browser extension that adds over thirty new features to Gann Academy's learning management system, used by over 90% of students and numerous faculty.

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

TECHNICAL SKILLS

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