

Lev Rosenberg

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EDUCATION:

Northwestern University, Weinberg College of Arts and Sciences, Evanston, IL | Expected June 2024

Bachelors: Computer Science and Cognitive Science

GPA: 3.89/4.00

Relevant coursework: Data Structures and Algorithms, Full Stack SWE, Agile Software Development

TECHNICAL SKILLS:

- Programming Languages: JavaScript, TypeScript, Python, C, C++
 - Frontend tools: React, CSS, Next, Redux, MUI, Tailwind, D3, Konva
 - Backend tools: Cloud Firestore, PostgreSQL, Express, Django, GraphQL, REST, WebSockets
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EXPERIENCE

SONIC Lab | Frontend & UX Intern | Winter 2023 – Present

- Prototyped Figma designs for updates to human-AI-teaming platform based on Nielson's UX heuristics.
- Revamped outdated React repository and iteratively implemented new features based on UX testing.
- Integrated OpenAI's API for a chat assistant feature on the client side

Engineers for a Sustainable World | Software Developer | September 2023 – Present

- Implemented real-time database updates for UI using Firestore, syncing with submissions by system and users.
- Built out fullstack solution for paginated recent activity log.
- Incorporated local backend emulator into development process to facilitate simpler testing and debugging.

Maddox AI | Frontend Development Intern | Summer 2023

- Led project to improve Maddox's image annotation tool by exploring alternative front-end visualization frameworks like React-Konva, D3.js, and visx.
- Developed TypeScript demos with each framework for polygon manipulation and optimized zooming.

Delta Lab | Undergraduate HCI Researcher | Winter 2023 - Spring 2023

- Spearheaded creation of a web-app enabling front end developers to master advanced CSS techniques.
 - Conducted weekly testing to iteratively pinpoint user challenges, resulting in more increased learning.
 - Aligned the tool with learning science principles, integrating relevant research into design process.
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PROJECTS:

SplitPay | React, Express, WebSockets, PostgreSQL

- Developed a full-stack mobile web app to streamline restaurant check bill-splitting.
- Created a REST API backend using Express.js and PostgreSQL hosted on AWS RDS.
- Utilized WebSockets to provide real-time updates to the frontend

ThereminPlus | C

- Built embedded software in C for digital theremin instrument.
- Connected ultrasonic distance sensor via GPIO mapping distance to frequencies played by PWM output.
- Integrated with capacitive touch sensor for play-pause functionality.

NuArt | React, Cloud Firestore

- Collaborated with team to build a multifunctional online store promoting student art at NU.
 - Designed and implemented in-app messaging system to streamline the selling process internally.
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LEADERSHIP EXPERIENCE

Purple Haze A Capella | Music Director | Spring 2021 - Spring 2023

- Directed and trained 20 undergraduate singers to perform at concerts and paid gigs.
- Led group to win 2nd place at quarterfinals of the International Championship of Collegiate A Capella.