

# 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

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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- Revamped outdated React repository and iteratively implemented new features based on UX testing.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 the UI, 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 within the framework of professional websites.
  - 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.js, Express.js, 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

**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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## TECHNICAL SKILLS:

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