Lev Rosenberg

(781) 898-5553 | levrosenberg2024@u.northwestern.edu | levrosenberg.vercel.app | github.com/lev-rosenberg

---

EDUCATION:

Northwestern University, Weinberg College of Arts and Sciences, Evanston, IL | June 2024
> *Bachelor of Arts:* Majors in Computer Science and Cognitive Science, *GPA*: 3.90/4.00, *cum laude*

TECHNICAL SKILLS:

- Programming Languages: JavaScript, TypeScript, Python, C, C++
- Front-end tools: React.js, HTML, CSS, Next.js, Tailwind, D3, Konva
- Back-end tools: Node.js, Express.js, Django, SQL, Google Firebase, AWS RDS, S3, Lambda

---

PROJECTS:

Carbon Footprint Tracker | React, Tailwind, AWS, MySQL
- Created full-stack web-app using React and Next.js helping users visualize their carbon footprint and environmental impact.
- Implemented serverless architecture with AWS Lambda and API Gateway, using the ClimatIQ API for footprint estimations.

Angel Shot | React, OpenAI, Amazon Transcribe
- Won 3rd place at NU hackathon for app initiating 'calls' with AI to help individuals feel safe in uncomfortable situations.
- Leveraged Amazon Transcribe's speech-to-text and OpenAI's text-to-speech APIs to facilitate real-time conversation.

Digital Theremin | C
- Built embedded software in C for digital theremin instrument.
- Connected ultrasonic distance sensor via GPIO that mapped distances to frequencies played by PWM output and integrated with capacitive touch sensor for play-pause functionality.

Split Pay | React, Express.js, WebSockets, PostgreSQL, AWS RDS
- Co-developed end-to-end full stack mobile web app to streamline restaurant check bill-splitting.
- Created REST API with Express, integrated PostgreSQL for DBMS, and utilized WebSockets for real-time updates.

RELEVANT EXPERIENCE:

SONIC Research Group | Frontend & UX Intern | Evanston, IL   **Jan 2024 – July 2024**
- Prototyped UI designs in Figma for research platform studying human-AI teams, aligning with usability heuristics.
- Refactored outdated React repository and iteratively implemented 10+ new features based on bi-weekly UX testing.
- Integrated OpenAI's API for chat assistant within group chat feature, embedding AI alongside human interaction.

Engineers for a Sustainable World | Full Stack Developer | Evanston, IL   **Sept 2023 – Apr 2024**
- Built out control panel and dashboard frontend for automated aquaponics system that grows both fish and plants unattended
- Enabled real-time database updates using Cloud Firestore snapshot listeners, syncing with submissions by system & users.
- Incorporated local backend emulator into development process, reducing average testing time per feature by 30%.

Maddox AI | Frontend Development Intern | Berlin, Germany   **Jun 2023 – Aug 2023**
- Led project to overhaul Maddox's image annotation platform, solving existing issues surrounding image rendering, annotation drawing and manipulation, and zoom-pan functionality.
- Developed 3 TypeScript demos demonstrating alternative solutions, evaluating each on UX/DX and performance metrics.

Delta Lab | Human Computer Interaction Researcher | Evanston, IL   **Jan 2023 - Jun 2023**
- Collaborated with team of 3 researchers to optimize web-app helping frontend developers master advanced CSS techniques, tracking team progress using bi-weekly scrum sprints.
- Conducted weekly tests to iteratively pinpoint user obstacles, resulting in 60% increase in CSS learning by users.
- Aligned the tool with learning science principles, integrating relevant research into design process.

LEADERSHIP EXPERIENCE:

ARTica Studios | Ceramic Studio Technician | Evanston, IL   **Mar 2023 – Aug 2024**
- Mentored studio assistant and desk attendants, facilitating skill development and fostering collaborative culture.
- Offered expert guidance on ceramic techniques, materials selection, and project execution to studio members.

Purple Haze A Capella | Music Director | Evanston, IL   **Mar 2021 - Jun 2023**
- Directed and trained 20 undergraduate singers to perform at 30+ concerts, paid gigs, and competitions.
- Composed over 15 original arrangements tailored for both live performances and studio recordings.