

Ray Shen

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Skills

- **Programming Languages:** Java, Javascript, Typescript, Python
- **Web Development:** React, Node.js, Express, Next.js
- **Other Tools:** Git, Linux, REST APIs, Tailwind CSS

Education

Northeastern University, BS in Computer Science Aug 2025 – May 2029

- GPA: 4.0/4.0
- **Coursework:** Discrete Structures

Oakton High School Aug 2021 – June 2025

- GPA: 3.8/4
- **Coursework:** CS Data Structures, AP Computer Science A, AP Calculus AB/BC, AP Physics C Mechanics/E&M

Experience

Dope Digital Fellow, Eduruna – Woodbridge, VA June 2024 – Aug 2024

- Led a team of 7 fellows to successfully build and enhance a local non-profits online web presence.
- Managed project timelines and client communications to ensure 100% of deliverables were completed on schedule.
- Contributed to front-end design and development, increasing the nonprofit's online engagement by 400%.

Projects

EcoJustice - Grand Prize Winner, Hack the Nest 2025 2025

- Built an interactive web map integrating CDC, EPA, and Census datasets to highlight environmental justice issues.
- Developed features for users to explore proposed legislation affecting vulnerable communities.
- Implemented an AI-powered letter generator that auto-drafted messages to local representatives.
- Tools Used: Next.js, Typescript, Tailwind CSS, Google Maps API, Google Civic Information API, Gemini API

VolunThrive 2025

- Designed a volunteer-matching platform that paired users with nonprofit opportunities based on skills, interests, and availability.
- Integrated user profiles and a custom matching algorithm, improving match accuracy.
- Tools Used: Next.js, Typescript, Tailwind CSS, Firebase Authentication, Firestore Database

Cider – Best Lifestyle Hack, HackTJ 11.0 2024

- Built an AI-powered document parser in Next.js to extract event details and generate .ICS calendar files.
- Implemented text parsing for event metadata (titles, dates, times, locations, attendees).
- Tools Used: Next.js, Tailwind CSS, OpenAI API

Mango Chat – Best Overall Hack, HackTJ 9.0 2022

- Developed a decentralized, end-to-end encrypted chat application with secure real-time messaging.
- Focused on privacy-first architecture, implementing peer-to-peer communication protocols.
- Tools Used: Svelte, Gun.js