

Elaine Cui

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EDUCATION

Northwestern University

Bachelor of Science, Major in Computer Science

Evanston, IL

June 2026

- GPA: 3.95 | ACT: 35 | Dean's List

Relevant Courses: Data Structures & Algorithms, Intro Systems, Machine Learning, Discrete Math, Multivariable, Linear Algebra

Technical Languages: Java, Python, React, C, C++, JavaScript, TypeScript, HTML, CSS, SQL, Next.js, Tailwind, Unity

WORK EXPERIENCE

Minnesota Government IT Services | Health Department

Software Developer Intern

Minneapolis, MN

June 2024 – Present

- Redesigned immunization SMS system with AWS Pinpoint and Python for 1,000+ campaigns and 50,000+ Minnesotans to keep citizens up to date with health care information and updates.

The Garage Northwestern

Full Stack Software Engineer

Evanston, IL

September 2023 – Present

- Structured landing page and dynamic hub/website leveraging React, Tailwind, and AWS for centralizing entrepreneurship workshops, alumni databases, and idea creation for 1,500+ startups and 1,000+ students at Northwestern and San Francisco.
- Conducted field study research on needs of participants through 30+ hours of surveys and primary research, consolidating into initial minimum viable product with focus on simplifying and engaging students with the startup program.

Caraburo IT Consulting

Software Developer Intern

Minneapolis, MN

May 2023 – September 2023

- Facilitated the creation of a full stack web application using React to search affordable daycare centers in 20+ states by developing API requests to retrieve data from backend database.
- Advocated and collaborated with client for 100+ parents to allow communication between parents and daycare centers.

PROJECT EXPERIENCE

Scholarly | Northwestern WildHacks Winner – Best Use of AI in Education

Python, MongoDB, FastAPI, Claude-3, React, TypeScript, Tailwind

Evanston, IL

April 2024 – May 2024

- Founded AI educational platform for promoting accessibility by simplifying 10,000,000+ research and academia materials into 6+ educational levels and formats to then be saved and shared digitally among classrooms, educators, and students.

OurConnection | DSGN 208 Design, Thinking, & Doing

Angular, MySQL

Evanston, IL

April 2024 – May 2024

- Spearheaded platform for incarcerated women to share their stories and spread awareness, interviewing 5+ current and past incarcerated women and prototyping with Women Initiating New Directions through the design process.

The Garage Launchpad

Python, React, TypeScript, Tailwind, AWS, Next.js

Evanston, IL

September 2023 – Present

- Developed a full stack web application using React, Python and AWS Lambda Functions, API Gateway, and RDS to create a dynamic directory of 1,500+ alumni and current startup students, allowing keyword filtering through SQL queries.

Evanston Bus Tracker

C, C++

Evanston, IL

February 2024 – March 2024

- Retrieved local bus information to perform navigation of an Open Street Map through API implementation and graphical displays; Provided 200+ buildings and bus times for 20+ specific stops on campus to increase ease of navigation for students.

Python Subset Execution Environment

C

Evanston, IL

January 2024 – February 2024

- Implemented the scanner, execute, and memory component of Python using C by identifying tokens, traversing through operational graph structures, and directing memory allocation, focusing on complexity optimization.

YouTube to MP3 Converter

Python, React, JavaScript, CSS, HTML

Minneapolis, MN

July 2023 – August 2023

- Designed a website utilizing HTML and CSS to develop a converter from YouTube videos to MP3 files, providing downloaded MP3 files with error handling; Adopted by high school media club for video editing by 50+ students.

ADDITIONAL

Technologies: GitHub, AWS, Figma, Jira, Android Studio, Office Suite, Excel, Google Workspace, Adobe Suite, Final Cut Pro

Organizations: Alpha Kappa Psi, Society of Women Engineers, Women in Computing, Refresh Dance, Chinese Student Association

Interests: Graphic Design, Marvel, Mandarin, Kimchi Ramen, Taylor Swift, Realism Drawing, Marques Brownlee, Video-Creation