Elaine Cui

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EDUCATION

Northwestern University   **Evanston, IL**
Bachelor of Science, Major in Computer Science   *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: Python, Java, React, C, C++, JavaScript, TypeScript, HTML, CSS, SQL, Next.js, Tailwind, Unity

WORK EXPERIENCE

Minnesota Government IT Services | Health Department   **Minneapolis, MN**
Software Developer Intern   *June 2024 – Present*
- Redesigned immunization SMS system with AWS Pinpoint and Python for 1,000+ campaigns and 500,000+ Minnesotans to keep citizens up to date with health care information and updates.
- Created health department specific job board using Vue.js by converting xml to JSON to generate filtering queries on Drupal.

The Garage Northwestern   **Evanston, IL**
Full Stack Software Engineer   *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   **Minneapolis, MN**
Software Developer Intern   *May 2023 – September 2023*
- Facilitated the creation of a full stack web application using React and Python 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   **Evanston, IL**
Python, MongoDB, FastAPI, Claude-3, React, TypeScript, Tailwind   *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 Prototype | DSGN 208 Design, Thinking, & Doing   **Evanston, IL**
Python, React, MongoDB, TypeScript, Tailwind   *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   **Evanston, IL**
Python, React, TypeScript, Tailwind, AWS, Next.js   *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   **Evanston, IL**
C, C++   *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   **Evanston, IL**
C   *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   **Minneapolis, MN**
Python, React, JavaScript, CSS, HTML   *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