

# Cih-Lian Liao

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## Summary

Master's student at Northeastern University with a specialization in front-end development and user-centered design. Proven ability to architect and deploy full-stack applications using React, Node.js, and MongoDB, as demonstrated by developing projects with features like real-time data visualization and AI-powered chatbots. Eager to apply a unique background in cross-functional collaboration and a passion for creating intuitive, impactful solutions to a Summer 2026 Software Engineering Internship.

## Education

### Northeastern University

Expected Graduation Dec 2026 | Seattle, WA

- Master of Science in Information Systems (Computer Engineering)
- Coursework: Application Modeling and Design (Java, OOP), Introduction to Python for Information Systems (Python, pandas), Application Engineering and Development (Java, GUI, JDBC, Docker), Web Design and User Experience Engineering (HTML, CSS, JavaScript, React, Vite), Data Management and Database Design (SQL, MySQL), Program Structure and Algorithms (Java), User Experience in the Era of Generative AI, Career Management for Engineers (Growth Mindset and Work Ethics)

## Skills

- **Programming Languages:** Python, Java, JavaScript, TypeScript
- **Front-End:** HTML, CSS, React, Vite | **Back-End:** Node.js, Express.js, REST APIs
- **Databases & Data Management:** SQL, MySQL, NoSQL, MongoDB | **Developer Tools:** Git, GitHub, Vercel
- **AI & UX:** OpenAI API, Prompt Engineering, Generative AI for UX Design, AI-Driven User Experience Optimization
- **Languages:** English (Fluent), Mandarin Chinese (Native), Korean (Fluent)

## Selected Projects

### Sneat Dashboard Analytics Platform | Full-Stack React Application - [GitHub](#) | [Demo](#)

- Architected full-stack analytics platform using **React**, **Vercel Functions**, and **MongoDB Atlas**, implementing **serverless APIs** and **responsive web design** for cross-platform compatibility.
- Designed scalable serverless backend services with MongoDB Atlas, optimized for low-latency responses to support real-time data aggregation and business intelligence reporting.
- Engineered a highly responsive React frontend with over 20 reusable components, enhancing user experience with features like dark mode, mobile optimization, and interactive data visualizations powered by Chart.js.

### FunzyMart | React E-Commerce Website - [GitHub](#) | [Demo](#)

- Developed a modern, single-page e-commerce application with **React**, **Vite**, **JavaScript**, **HTML/CSS**, focusing on a seamless and interactive user shopping journey from product discovery to cart management.
- Architected a modular system with reusable components and centralized state via **Context API**, enabling complex features like real-time filtering and instant cart updates without page reloads.
- Implemented client-side routing with **React Router** to create a fluid navigation experience, significantly enhancing user engagement and reducing perceived latency.

### Splash Flood Risk Management Platform - [GitHub](#) | [Demo](#)

- Developed a flood risk management platform with **JavaScript**, **Leaflet.js**, and **National Weather Service (NWS) API**, enabling real-time weather intelligence and geospatial visualization for emergency response.
- Designed advanced modules including interactive flood risk mapping, Community Intelligence (fusing NWS alerts with user reports), Safe Parking Finder, and an Emergency Response Center with neighborhood resources.
- Engineered a responsive, **mobile-first UI (HTML5/CSS3/JS)** with dynamic navigation, map overlays, toast notifications, and offline-tolerant local storage.
- Implemented robust workflows for **REST/JSON APIs** integration, geospatial coordinate processing, and risk calculation pipelines, ensuring reliable and intelligent user experience during weather emergencies.

### Personal Portfolio | Interactive React App with Custom AI Chatbot - [GitHub](#) | [Demo](#)

- Developed a fully responsive personal portfolio using **React** and deployed it on **Vercel** for global, high-performance access.
- Engineered and integrated a custom **AI chatbot API (OpenRouter)** to provide an innovative, conversational way for visitors to explore my skills and project details, demonstrating proficiency in API integration and modern AI tools.
- Designed a clean, modern UI that effectively showcases my career journey and technical abilities, creating a unique and personalized user experience.

## Experience

### Translator, Interpreter & Project Coordinator

2019 - 2023 | Taiwan

- Delivered professional Korean/Chinese interpretation for business meetings and international events.
- Coordinated cross-cultural teams and facilitated effective communication under high-pressure environments.
- Managed operations of a translation talent platform, collaborating with engineers to improve usability and workflows.
- Cultivated strong problem-solving and teamwork skills, now applied to agile development environments to facilitate clear communication between technical and non-technical stakeholders and deliver user-centric products.