

Cih-Lian Liao

Authorized to Work in the U.S. without Sponsorship, 619-707-0648, cihlianliao@gmail.com, [LinkedIn](#), [GitHub](#), [Portfolio Web](#)

Education

Master of Science in Information Systems, Northeastern University **Expected Graduation Dec 2026, Seattle, WA**

- Relevant Coursework: Web Design & UX (React, JavaScript, Vite, HTML, CSS), Data Structures & Algorithms (Java), Java OOP & Design, Java Application Development (GUI, JDBC, Docker), Python Programming (pandas), Database Systems (SQL, MySQL, MongoDB), UX in Generative AI(Figma)

Skills

- **Programming Languages:** JavaScript(ES6+), TypeScript, Java, Python
- **Web Development:** React, Vite, HTML5, CSS3, Tailwind CSS, MUI, Figma, Node.js, Express.js, RESTful APIs, Django
- **Databases:** SQL, MySQL, NoSQL (MongoDB)
- **Tools & Platforms:** Git, GitHub, Vercel, Docker
- **AI Integration:** OpenRouter API (GPT-3.5 / 4), Prompt Engineering

Experience

Software Engineer Intern – Frontend Development | WeWave **Fremont, CA | Jun. 2025 – Aug. 2025**

- Enhanced performance and responsiveness of financial dashboards built with React, MUI, and Recharts, optimizing rendering logic and component structure to handle 10× larger datasets while maintaining smooth interactivity
- Implemented front-end analytics instrumentation (GA4) and A/B usability experiments, improving navigation clarity and reducing user drop-offs by 10% through data-driven UI refinements
- Integrated and tested Stripe Checkout flows using the React-Stripe.js library and implemented reCAPTCHA, strengthening form validation, cross-browser reliability, and overall payment success rate

Software Engineer Intern – Forum & E-Commerce Platform | Racing Pigeon Alliance **Taiwan | Jun. 2024 – Aug. 2024**

- Migrated a legacy PHP/jQuery web application to a modern React (ES6+) architecture, improving page-load performance by ~25% and reducing maintenance complexity
- Implemented modular components and integrated Facebook and LINE APIs for social sharing and authentication, boosting community engagement and driving a 20% increase in new user registrations
- Redesigned and tested an accessible, senior-friendly UI optimized for readability and navigation simplicity, raising post-launch satisfaction scores by ~15%

Product & Project Manager – Interpretation Talent Platform | Taiwan Chingu **Taiwan | Full-time, 2019 – 2023**

- Collaborated with a cross-functional team of engineers and designers to rebuild core translation workflows, improving user navigation and reducing support tickets by ~30% through iterative design testing and feedback loops
- Contributed to frontend development using React and JavaScript, refactoring legacy components and enhancing UI consistency, responsiveness, and accessibility across translator and client dashboards
- Implemented Agile sprint planning and progress tracking to coordinate multi-client interpretation projects, ensuring on-time feature delivery and maintaining consistent platform quality

Selected Projects

Personal Portfolio Website: Interactive React App with Custom AI Chatbot **[GitHub](#), [Demo](#)**

- Architected and deployed a full-stack portfolio web app with a React frontend and Express.js backend on Vercel, establishing a scalable client-server architecture for global, high-performance access
- Developed and integrated a custom AI chatbot (“LilyGPT”) leveraging OpenAI’s GPT-3.5 Turbo via the OpenRouter API, and designed a clean, responsive UI with Tailwind CSS and modular React components, enhancing interactivity and user engagement

Splash Flood Risk Management Platform: Northeastern University Hackathon (2024) **[GitHub](#), [Demo](#)**

- Led front-end development of a 72-hour hackathon prototype built with HTML5, CSS3, and JavaScript (ES6+), delivering a fully responsive, mobile-first interface that supported parallel teamwork and real-time iteration
- Integrated the NWS API with async/await to process GeoJSON data, and engineered an interactive Leaflet.js visualization module, optimizing performance with Lazy Loading and Debouncing for a smooth, interactive demo

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

- Architected a full-stack analytics platform using React, Vercel Functions, and MongoDB Atlas, implementing serverless APIs and responsive web design for seamless cross-platform performance and real-time analytics
- Engineered a responsive React frontend with 20+ reusable components, integrating Chart.js for interactive data visualizations, dark mode, and mobile optimization to enhance user experience

My Healthcare Buddy: Java Swing Health Management App **[GitHub](#), [Demo](#)**

- Architected a scalable, multi-tier Java application using MVC patterns and Object-Oriented Design, integrating JFreeChart and JDBC (SQLite) to deliver interactive data visualization and secure, high-performance CRUD operations
- Led a 3-person team through the SDLC, managing milestones, conducting peer code reviews, and coordinating collaborative workflows via Git/GitHub to ensure timely, maintainable delivery