

Larry W. Ling

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EDUCATION

Northwestern University

B.S. Computer Science

June 2027

GPA 3.72/4.00

Relevant Coursework: Data Structures and Algorithms, Scalable Software Architecture, Foundations of Security, Mathematical Foundations of Computer Science, Intro to Computer Systems

Languages: English (Fluent), Mandarin (Conversational)

WORK EXPERIENCE

The Recyclery Collective | Frontend Engineer

January 2025 - June 2025

- Interfaced with 3 client team members to gather requirements for website revamp project, crafting detailed project specifications and describing realistic user stories
- Designed 10 UI components and pages in **Figma** to improve page layout responsiveness across various devices
- Contributed 4,000 lines of **React** and **TailwindCSS** code, helping improve **Lighthouse** metrics by 60%
- Evaluated and communicated feedback on **Github** pull requests, maintaining code quality and style consistency

Northwestern University Men's Soccer | Software Engineer

June 2025 - July 2025

- Engineered a web application using **React** to algorithmically assign 25+ players to training sessions without time conflicts, replacing unreliable AI chat tools frequently generating conflicting schedules
- Managed global state and local storage persistence with **Zustand**, providing seamless user experience by maintaining application state across browser sessions and reducing prop drilling complexity
- Handled type-safe form validation with **React Hook Form** and **Zod** to deliver real-time validation feedback and prevent invalid submission of player and training block data

Northwestern University Men's Soccer | Software Engineer

May 2025

- Created a **Python** CLI web scraper tool to automate opponent data collection from 16 college soccer team websites, cutting down scouting reports creation time by over 80%
- Leveraged **Pandas** library to extract and format HTML table data, automatically generating and downloading PDF reports for websites without print capabilities
- Implemented comprehensive error handling for broken/missing links and timeouts, optimizing user experience and reliability

PROJECTS

Collaborative Kanban Board

February 2025 - April 2025

- Integrated real-time channel subscriptions with **AWS AppSync Events** into **React** frontend application to enable users to simultaneously edit and view up-to-date board content
- Built RESTful API using **Node.js** and **Express** with **MySQL** database on **AWS RDS** to manage user authentication and store board content, and collaborator data
- Leveraged **React Query** for efficient server state management, providing instant UI feedback through optimistic updates and maintaining fresh data with automatic background refetching
- Deployed custom **JWT** authentication flow with dual-token strategy to facilitating uninterrupted user sessions through automatic token refresh while protecting API endpoints with validated access tokens

SKILLS & CERTIFICATIONS

Languages: Javascript/Typescript, Python, HTML, CSS, PostgreSQL, MySQL

Frameworks/Libraries: React, Zustand, React Hook Form, Zod, React Query, Node.js, Express, TailwindCSS, Pandas

Tools: Github, Amazon Web Services, Supabase, Docker, Figma, Visual Studio Code, WebStorm, PyCharm

Certifications: AWS Certified Cloud Practitioner (CLF-C02)