

# Yiwen (Emelina) Wang

She/her/hers | Backend Software Engineer | Student Leader | AnitaB & GHC Volunteer 24' | Greater Seattle Area (Ready to Relocate)

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## SUMMARY

Dynamic and highly motivated **software engineer** with a strong foundation in developing innovative and efficient software solutions and **code optimization**. Proficient in effective communication, risk management, and **problem-solving**, teamwork and collaboration with **cross-functional teams**. Completed 10 projects, including one ready to launch for the campus use. Successfully led team projects that improved runtime and **code efficiency by approximately 60%** and reduced development time by 25% through applying **object-oriented principles**, **SDLC**, and optimizing **database management**. Committed to **backend development**, **full stack development**, and adhering to **Agile** and **SDLC methodologies**.

## EDUCATION

Northeastern University, Seattle, WA

Jan 2023 – Dec 2025

Master of Science in Computer Science | **GPA 4.0/4.0** | **Exceptional Student Representative**

- **Awards:** NEU 2024 Needle in a Hack-Stack Hackathon, **Top 3 Team & Most Data-driven Solution Award**
- **Teaching Assistant:** Object-Oriented Design course
- **Core Technical Skills:** Java, JavaScript, Python, C#, C, HTML, CSS, Spring, Django, React, Node, Express, Git, RESTful API, AWS, Azure, MySQL, MongoDB, Database system management, Data structure, Algorithms, software development life cycle (SDLC) methodologies, distributed systems, backend development, full stack development.

## INTERNSHIP

Software Engineer Intern

Summer 2024

Uplift NW – Seattle, WA

- Developed data processing scripts and produced visualizations to provide actionable business insights; Collaborated with a cross-functional team to design and implement a scalable and efficient **full-stack web application** using **JavaScript**, contributing to both the architecture and framework. Led the design and development of an input data model, ensuring it met complex data requirements while remaining scalable and user-friendly.

Software Engineer Intern,

Summer 2023

Zhejiang Golden Webbing Co., Ltd. – Remote

- Developed a loyalty program management system using **Java** and **Spring Boot**, enhanced customer engagement by **30%**.
- Seamlessly integrated the system with the e-commerce platform, using **RESTful APIs** and **Hibernate**, to track customer purchases, allocate points, and facilitate reward redemption during checkout, optimizing the user satisfaction by **35%**.

## LEADERSHIP

Tech@Crossroads, Northeastern University – Seattle, WA

Fall 2023 - present

President, Founder and Software Engineer

- Founded and led this student organization with over 100 members, being **most organized student organization** in Seattle campus, hosting a LeetCode practice group, and the first & innovational student organization have its own **student-led software development** project team in both the Khoury college and Seattle campus.

## PROJECTS

JavaScript Full-Stack Web Application with MongoDB

Spring 2024

- **Initiated** and **led** the team, developing a **full-stack inclusive publishing platform for Northeastern University Seattle Campus** students' usage, using **JavaScript**, with **MongoDB** as the database management.
- **Improved and refactored the backend** by boosting the runtime efficiency approximately **70%** and **optimizing** code efficiency by **60%** through applying the object-oriented principle.

JavaScript Full-Stack Web Application with MongoDB, [Demo](#), [GitHub](#)

Spring 2024

- Developed a secure and user-friendly **password management application** using **JavaScript** for **full-stack development**. It was built with **Express** and **Node.js**, **React**, **MongoDB** used for **database management**, and deployed on **Heroku**.
- Improved the user experience and security by boosting the querying time approximately **80%** and **optimizing the security** through implementing authentication with cookies, user authorization (share-request), encrypted sensitive data, and cryptographically secure password generation.

Backend Java Application with GUI, [Demo](#), [GitHub](#)

Spring 2023

- Developed a **Gesture-based Musical Notation Editor** using **Java**, **MVC** design, and **Swing**, improved user experience by allowing intuitive gesture-based input for musical symbols. Engineered a **shape trainer** to recognize and interpret mouse gestures, enabling users to draw diverse symbols like bar lines with ease.