

Yiwen (Emelina) Wang

She/her/hers | 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**. Successfully led team projects that improved runtime and **code efficiency** and reduced development time 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 – 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:** CS5004 & CS3500 Object-Oriented Design course
- **Core Technical Skills:** Java, JavaScript, Python, C#, C, HTML, CSS, RUST, MOVE, 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.

EXPERIENCE

Software Engineer Intern

Aug 2024 - Present

Veelongs Corporation, Remote, US

- Developing and optimizing web interfaces for displaying collateral debt position (CDP) data from the SUI blockchain with **RUST** and **MOVE**; Collaborating in the full software development lifecycle with the team.

Software Engineer Intern

Jun - Aug 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**, leading the design and development of an input data model that increased data processing speed by 25% while ensuring scalability and user-friendliness.

President, Founder and Software Engineer

Dec 2023 - present

Tech@Crossroads, Northeastern University – Seattle, WA

- Founded and led **the 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.
- **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 **optimized** code efficiency by **60%** through applying the object-oriented principle.

Software Engineer Intern

Jun - Aug 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%**.

PROJECTS

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.