

Yiwen (Emelina) Wang

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

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EDUCATION

Northeastern University, Seattle, WA

Jan 2023 – 2025

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

TECHNICAL SKILLS

Programming & Frameworks: Java, JavaScript, Python, C#, C, HTML, CSS, RUST, MOVE, Spring, React, Node, Express

Version Control and APIs: GitHub, Git, RESTful API

Cloud and Databases: AWS, Azure, MySQL, MongoDB, Database Management Systems

Core Concepts & Development Methodologies: Data structure, Algorithms, Software Development Life Cycle (SDLC)

Methodologies, Distributed Systems, Agile Development

Specialized Development: 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 input system and produced visualizations to provide actionable business insights; Collaborated with a cross-functional team to implement a scalable and efficient **full-stack web application** using **JavaScript**, my design of the input system 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 300 members, hosting a LeetCode practice group over 200 people, and hosting events on 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**, 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.

HACKATHON AWARD

Top 3 Team & Most Data-driven Solution Award in Northeastern University Seattle Campus 2024 Needle in a Hack-Stack Hackathon