

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. 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

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**
- **Certificate:** Foundational C# with Microsoft; Advanced Python; Introductory AI Literacy
- **Teaching Assistant:** Object-Oriented Design course
- **Technical Skills:** Java, Python, C#, C, JavaScript, CSS, HTML, Spring, Django, React, Express.js, Git, Postman, RESTful API, Node.js, AWS, Azure, MySQL, MongoDB, Database system management, Data structure, Algorithms, software development life cycle (SDLC) methodologies, distributed systems.

INTERNSHIP

Zhejiang Golden Webking Co., Ltd. – Remote

Summer 2023

Software Engineer Intern

- 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, [Demo](#), [GitHub](#)

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 Python Web Application with full SDLC, [Demo](#), [GitHub](#)

Fall 2023

- Developed an **online payment platform** using **Python**, **MySQL**, **RESTful APIs**, and **Django**. Leveraged **AWS** for deployment and **Docker** for containerization to ensure scalable and secure architecture.
- Improved the user experience and security by reduced development time by **25%** through an industrial practice of **software development life cycle (SDLC)**, incorporating features such as card validation, user authentication, account creation, balance calculation, and history tracking.

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

Spring 2023

- Developed a **Gesture-based Musical Notation Editor** using **Java**, **MVC** design, and **Swing**, improving 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.