

Yiwen (Emelina) Wang

Software Engineer | Student Leader | AnitaB & GHC Volunteer | Girls Who Code College Loop President | RTC Member
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EDUCATION

Northeastern University, Seattle, WA

Jan 2023 – Dec 2025

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

TECHNICAL SKILLS

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

Version Control and APIs: GitHub, Git, RESTful APIs, FASTAPI

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, Object-oriented Design, **Backend** Development

EXPERIENCE

Incoming Software Development Intern

Start May 5, 2025

Amazon, Seattle, US

Software Engineer Intern

Aug 2024 – Dec 2024

Veelongs Corporation, Remote, US

- Developed 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 about 300 members with tech projects, LeetCode Sessions and events.
- Initiated** and **led** the team, developing a **full-stack inclusive publishing platform**, 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 Webking 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

Backend Python Web Application, [Demo](#), [GitHub](#)

Spring 2024

- Developed an online payment platform prototype using **Python**, **MySQL**, **RESTful APIs**, and **FASTAPI**. Leveraged **AWS** for deployment and **Docker** for containerization to ensure scalable and secure architecture.
- Implemented comprehensive features** like card validation, user authentication, account creation, balance calculation, and history tracking to Improved overall payment processing functionality.

Backend Java Application with DBMS, [GitHub](#)

Spring 2023

- Designed and implemented a UML database model for the system, utilizing **MySQL** for table creation, data insertion, and retrieval, and employed **JDBC** for database management and data manipulation.

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

Located in Seattle, Open to relocate | Earliest Availability to Work: Dec 23, 2025