

Emelina (Yiwen) Wang

She/her/hers | Bellevue, WA | Emelina.NEU@gmail.com | [linkedin.com/in/emelinaw/](https://www.linkedin.com/in/emelinaw/) | github.com/YiwenW312
Software Engineer | Student Leader | Tech-Legal Dual Degree Candidate | AnitaB (GHC) Seattle Volunteer

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 courses
- **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.

University of Washington, Seattle, WA

2014 - 2022

Ph.D. in Law

EXPERIENCE

Software Engineer Intern, 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.

LEADERSHIP

Tech@Crossroads, Northeastern University – Seattle, WA

Fall 2023 - present

President, Founder and Software Engineer

- Founded and led this student organization with over 90 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.
- Demonstrated **problem-solving** and **teamwork skills** by initiating and leading the team, developing a **full-stack** inclusive publishing platform, using **JavaScript** for both frontend (React) and backend (Node.js & Express.js), with MongoDB as the database management; and this platform aims to filling the information gaps and helping students.

PROJECTS

Password Manager

Spring 2024

Full-Stack Web Application, Demo: <https://yiwen-password-manager-09cea1536aab.herokuapp.com/>

- Developed a secure password management web application using **JavaScript** for **full-stack development**. The backend was built with **Express** and **Node.js**, while the frontend was developed with **React**. **MongoDB** was used for **database management**, and the application was deployed on **Heroku**.
- Key features include password management with **cryptographically secure password generation**, **user authentication with cookies**, **user authorization (share-request)**, **encrypted sensitive data**, copy-to-clipboard and visually obscured passwords. The design is mobile-friendly and responsive, with a clean, user-friendly interface.

Online Payment Platform

Fall 2023

*Backend Python Web Application with full SDLC, Demo: <https://www.youtube.com/watch?v=UUgq4tRaCn0> **GitHub***

- Developed an online payment platform prototype with **Python**, **MySQL**, using **REST APIs**, **Postman**, **AWS** and **Django**.
- Went through **software development life cycle (SDLC)**, with the following features: card validation, user authentication, account creation, balance calculation, and history tracking.

Gesture-based Musical Notation Editor

Spring 2023

*Backend Java Application with GUI, **GitHub**: <https://github.com/YiwenW312/MusicEditor>*

- Applied **Model-View-Controller (MVC)** design with **Java** to create a musical notation editor.
- Engineered a **shape trainer** to train and interpret mouse gestures, enabling intuitive drawing of diverse musical symbols, E.g., a south-to-south gesture draws a bar line; Implemented layering functionality to streamline the editing process, ensuring symbols retain correct positioning or can be easily removed.

Car Sharing Application

Spring 2023

Hackathon JavaScript Prototype, Demo: https://youtu.be/l_4FXJNsN4

- With a team of 5 to designed and completed a prototype of car sharing application with **JavaScript** in 1.5 days.