

Jiali Liu

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EDUCATION

Northeastern University, Seattle, WA
Master of Science in Computer Science

Sep 2023 - June 2025(Expected)

University of Washington, Seattle, WA
Bachelor of Science in Informatics

Sep 2020 - June 2023

RELEVANT EXPERIENCE & TECHNICAL PROJECTS

Happy Lemon Review Website

Sep 2023 – Jan 2024

Northeastern University | *Node.js, Express.js, JavaScript, MongoDB, HTML, CSS*

- Designed and Built a visually appealing frontend of a review website with HTML and CSS
- Developed backend infrastructure using **Node.js** to create a **RESTful APIs** within the **Express.js Framework**, establishing robust connections with **MongoDB** through **Mongoose**.
- Designed and implemented a scalable database schema tailored for reviews, optimizing query performance and upholding data integrity within the **RESTful API framework**.
- Implemented key features such as **OAuth 2.0** authentication in JavaScript, ensuring secure identity management and minimizing the risk of spam accounts.
- Enabled dynamic image uploads and implemented filtering mechanisms based on beverage types, enhancing user engagement and review categorization.

Sponsored Project Developer

Jan 2023 - June 2023

University of Washington, Office of Global Affairs | *Python, SQL, React, Node.js*

- Developed Python scripts to efficiently update the department's MySQL database using **SQL and Python**, achieving an 30% increase in data accuracy, and reducing manual work.
- Designed and developed a full-stack web application using **Node.js** for server-side development and **react** for building dynamic and interactive user interfaces.
- Optimized system performance by adding indexes to the database, resulting in a **10%** enhancement.
- Integrated third-party APIs to the system, enabling seamless data exchange with external systems.

Appointment Reservation System

Sep 2022 – Dec 2022

University of Washington | *Java, SQL*

- Built a scheduling system using **Java** for users to register, view, and select available time slots.
- Analyzed data requirements and processing architectures to design and implement efficient relational database schemas, resulting in a 20% improvement in data retrieval speed.
- Utilized **SQL** from Java via JDBC to conduct various operations, including querying and deleting data.

Outfit planning web application

Mar 2022 – Jun 2022

University of Washington | *React, JavaScript, HTML, CSS*

- Collaborated with 3 peers to develop web applications using **HTML, CSS, JavaScript, and React**.
- Implemented a user-friendly interface with dynamic product listings that dynamically updated in real-time leading to a 15% improvement in searching speed.
- Built three interactive features, including advanced filtering, and searching capabilities, leveraging **JavaScript** and **React** to enhance user engagement and functionality.

TECHNICAL SKILLS

Programming Languages/Skills: *Java, Python, JavaScript, HTML/CSS, React, Node.js, SQL, Azure*

Awards & Acknowledgements

Dean's List, University of Washington (Jan 2022 - June 2023)