Ledi Li

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EDUCATION

Northeastern University   Jan. 2023 - May. 2025
Master of Science in Computer Science   *(GPA:4.0)Seattle, WA*

University of Illinois Urbana-Champaign   Aug. 2021 - Dec. 2022
Master of Human Resources and Industrial Relations   *Urbana-Champaign, IL*

Shanghai International Studies University   Shanghai, China
Bachelor of German Language and Literature   *Sep. 2016 - Jun. 2020*

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, HTML/CSS, SQL
Frameworks&Tools: React.js, Node.js, Express, MongoDB, Mongoose, Tailwind, JUnit, Jest, MySQL, AWS, Linux, Git, Github, VS Code, PyCharm, IntelliJ, Netlify
Knowlegde: Restful API, Full Stack Development, Relational Database, Non-Relational Database, Java Object-Oriented Programming, Data Structure and Algorithm

PROJECTS

Booking Application   Aug.2023 - Oct.2023
- Developed a full-stack Booking APP similar to Airbnb using the **MERN**(Mongodb/Express/React.js/Node.js)
- Employed **React.js** to craft and optimize user interfaces, and communicate with servers to retrieve the necessary information for seamless booking, comprehensive place information, and detailed user profiles
- Developed **RESTful APIs** using **Node.js** and **Express** to facilitate efficient management of places, online reservations, and user information within the application. Utilized **AWS S3** for storing image data, ensuring excellent scalability
- Stored hotel and order information using **MongoDB**, with **Mongoose** chosen as the object modeling tool. By creating appropriate indexes and implementing pagination, query response times have been reduced by 45%
- Implemented secure email registration and login functionality using **JWT** (JSON Web Tokens) for enhanced authentication and authorization
- Adopted **Test Driven Development** development pattern, utilizing **Chai** to write unit tests, resulting in a 32% reduction in the number of bugs
- Effectively deployed the project on **AWS** cloud infrastructure, ensuring seamless accessibility and scalability

Recipe Web Application   Jul.2023 - Aug.2023
- Developed a web application using **JavaScript/HTML/CSS** to develop a recipes application
- Implemented the **MVC** architecture to ensure maintainability and separation of concerns
- Implemented and integrated an advanced search functionality, allowing users to efficiently query recipe data via API requests.
- Deployed the application to **Netlify**, ensuring accessibility and a smooth user interface

Rideshare System   Jun.2023
- Designed and developed a Prospective Drivers Validator and Simulator for Rideshare System similar to Uber using **Java OOP** (Object-Oriented Programming) principles
- Implemented a comprehensive data processing module for parsing driver information from **JSON** data
- Developed an **interactive UI**, allowing users to search for information of accepted drivers
- Performed comprehensive testing utilizing **JUnit** framework

OPEN SOURCE EXPERIENCE

CodeCheck – Software Engineering Micro-internship - CTI / CodeDay   Oct.2023 - Nov.2023
- Collaborated with a cross-functional team of 3 members to develop and implement functionality for CodeCheck, a web-based autograder
- Leveraged **JavaScript** and **DOM** with the integration of **Ace Editor** to address a user interface issue related to the display of very long files by adding buttons to expand and collapse files. (pull request)
- Significantly reduced unnecessary page space occupation and improved user convenience when handling very long files, minimizing the time spent scrolling through content and enhancing the overall user experience