

Yuchen Jiang

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Expected Graduation: August 2025 | <https://github.com/jiangsirm>

Education

NORTHEASTERN UNIVERSITY | JAN.2023-PRESENT |

- Master of Science in Computer Science - Align (Current GPA: 4/4)
- **Courses: Object-Oriented Design, Data Structure, Algorithm, Web development, DBMS, Discrete Math**
- **Graduation Date: August 2025**

UNIVERSITY OF CHICAGO | SEP.2019-JUN.2020 |

- Master of Arts in Humanities (GPA: 3.71/4)

UNIVERSITY OF WASHINGTON | SEP.2013-JUN.2018 |

- Bachelor of Arts in Philosophy/ International Study (GPA: 3.63/4)

Skills

- **Programming Languages: Python, Java, C++, JavaScript, ruby**
- Tools: Gradle, Maven, JavaFX, Git, Linux, React.js, Node.js, Express.js, JDBC, MongoDB, RESTful APIs, HTML, CSS, MySQL, JUnit, Bash/Zsh shell script.
- Language: Chinese, English, German, Japanese

Technical Projects

Password Manager Application

APR. 2024

- Designed and implemented **ALL** client-side core features, server-side **RESTful APIs**, and **MongoDB** connectivities; functionalities: creating/updating password, sharing password with others, cryptographic password generation etc.
- Implemented logic for account login and logout feature, where sessions are tracked via **encrypted cookies**.
- Implemented **cryptographically valid password generator** using built-in crypto library.
- This is a team project, for my contributions please check this [repo](#).
- **Technologies used:** JavaScript, HTML/CSS, React.js, Node.js, Express.js, Git, Render, MongoDB Atlas, RESTful API

Conway's Game of Life Simulation

MAR. 2024-APR. 2024

- Designed and created the project as a static web applicant.
- Implemented frontend using **HTML/CSS** with **React** framework, employed various react functionalities like hooks.
- Implemented the logic for simulation progression using **Javascript**.
- Created **Git** repository and configure the website hosting using **Render**
- **Technologies used:** JavaScript, HTML/CSS, React.js, Node.js, Git, Render

Yijing Hexagram Divination program - Web Development project

APR. 2023-PRESENT

- Formulated the original idea of this Yijing Divination project using **MVC** model
- Implemented core logics, including input parsing, time stamping, and Hexagram generating
- Designed this **MVC** project, delegating tasks to members
- Designed and Implemented frontend codes using **JavaFX** to create UI
- Implemented the main logic that generates a pair of Hexagram as result of divination by parsing a user-given string
- Migrated this application to a [web service\(git repo\)](#) using node/react/express, deployed via Render.
- Support for Chinese character input
- **Technologies used:** Java, JavaFX, Maven, HTML/CSS, Node.js, React.js, Javascript, MongoDB, API.

Task Log Management System

AUG.2023

- Identified crucial features for a task log management system and came up with a **MVC** design accordingly.
- Led discussions about the scope of this task, especially the implementation of **JavaFX** interface.
- Broke down the design into frontend/backend tasks and delegate them to team members.
- Created developing plans to meet hard deadlines, by parallelizing the tasks and managing dependencies properly.
- Implemented Task, TaskLog classes in the design
- Assisted team member with other main method implementation for the project
- Owned and implemented the frontend code for the user interface using **JavaFX** within **Maven** framework
- **Technologies used:** Java, JavaFX, Maven, Gradle

Work Experiences

SDE Internship at Amazon Trust Services LLC.

SEP. 2024-DEC. 2024

- SDE Intern for Enterprise Secure Certificates Team, a Public Key infrastructure service that supports internal and commercial use.
- The project aimed to enhance the validation code flow of multiple production APIs, enabling more efficient error and exception handling. This improvement reduced the team's operational burden by preventing at least 5% of SEV-2 tickets annually.
- Worked with and calibrated automated continuous deployment and continuous integration process.

Operation Assistant at GPA 4.0 LLC.

SEP. 2018-MAY. 2019

- Provided writing tutoring sessions and proofreading services.
- Assisted public relations via reaching out to various student associations.

Marketing Specialist at STEPUP DANCE STUDIO LLC.

SEP. 2020-AUG. 2021

- Maintained and updated the official website using **Wix**.
- Provided marketing contents on multiple social media platforms.
- Daily operation of official social media accounts, online customer services.

Marketing Specialist at XUN JING, TECHNOLOGY INC.

MAY. 2022-JUL. 2022

- Edited and wrote marketing contents following contemporary trends in the technology industry.
- Graphic design, image editing, and typesetting.
- Translated and localized the official website into English version.