

Haolin Yu

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Education

The State University of New York, Stony Brook Computer and Information Science (CSE) & Applied Mathematics and Statistics (AMS) 05/2021 (Expected)

CSE Honor Student with Cumulative GPA 3.73/4.00, CSE GPA 3.84/4.00

Main Courses: Analysis of Algorithms, Applied Combinatorics, Computational Geometry, Data Structure, Principles of Database Systems, Survey of Probability and Statistics

Project Experience

Stock Trading System **Co-Developer** 01/2019 to 05/2019

- Designed a database schema and created an associated SQL database on a remote server.
- Developed a back-end Java program processing front-end transaction requests and updating data in the SQL database.
- Presented online stock trading transactions via a web interface developed by 'Bootstrap 4'.
- Extended the system with additional functionality such as displaying a list of bestseller stocks, providing user-specific stock recommendations, tracking price history, and reviewing customer order history.

Course Website Builder **Developer** 09/2018 to 12/2018

- Wrote a software design description based on a given software requirement specification including a collection of UML Class and Sequence diagrams.
- Developed a user-friendly UI with JavaFX.
- Allow users to save and load workspaces through JSON files.
- Allows users to change themes for both app UI and Web page with preset CSS files.
- Use XML files to store program properties. Allow users to change the language.

Research Experience

Secure Distributed Computation and Learning Networks **Research Assistant** 08/2019 to 10/2019

- Read papers and write literature reviews.
- Receiving regularly scheduled supervision from Prof. Ji Liu.

Teaching Assistant Experience

Computational Geometry **Teaching Assistant** 08/2019 to Present

- Assistant the faculty in teaching by holding office hours to answer students' questions.
- Grade and give feedback for Homeworks and quizzes.

Selected Skills

Programming Languages	C, Java, Python
Markup Language	CSS, HTML, Markdown
Data Format	JSON, XML
Database	MySQL
Framework	Bootstrap, JavaFX
Languages	English (Fluent), Mandarin (Native)