Haolin Yu

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Education

Stony Brook University, Computer and Information Science & Applied Mathematics and Statistics
Cumulative GPA 3.76, CS GPA 3.84, 05/2021 (Expected)

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

Project Experience

Personal Projects

Database Manage System - Stock Trading System   01/2019 to 05/2019
- Uses JDBC connected with SQL database and Bootstrap to simulate an online stock trading experience.
- Use Bootstrap 4 with Java Servlet to build the interface
- Support many helpful functions including recommendation, best sellers, price history, order history

JavaFX Development - Course Site Generator   09/2018 to 12/2018
- Provides a user-friendly UI that allows users to easily generate websites. Supports undo/redo and save/load operations. The UI is presented by JavaFX Framework. The undo/redo operations are provided by jTPS - An abstract transaction processing system. The data inputted by users will be stored in JSON files.
- Allows users to change themes for both app UI and Web page. Simply put CSS files under webpage_css folder, the app will load from this folder and allow users to select themes from a menu.
- Supports multiple languages. It uses PropertyManager to load XML files which stores languages.

Research Experience

Secure Distributed Computation and Learning Networks   08/2019 to now
- Develop a framework and computational models for teams of heterogeneous agents to reliably exploit information from various sources in uncertain and potentially unfriendly environments.
- Use various large-scale decision-making, computation, optimization and machine learning algorithms 'secure' against network and/or component failures and adversary attacks.

Selected Skills

Programming Languages	Java, Python, HTML, CSS, SQL
Database	MySQL
Framework	JavaFX, Bootstrap
Languages	English (Fluent), Mandarin (Native)