

Haolin Yu

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🔗 <https://github.com/LinPsPs>

Education Background

Cornell University 01/2021 – 12/2021 (*expected*)

M.Eng in Computer Science

- Selected Courses: *Operating Systems, Software Testing*

The State University of New York at Stony Brook (SBU) 08/2017 – 12/2020

B.S. in Computer Science and B.S. in Applied Mathematics and Statistics

- Graduated with Computer Science Department Honor
- Selected Courses: *Machine Learning, Artificial Intelligence, Systems Fundamentals, Data Structure, Principle of Database Systems, Analysis of Algorithms, Computational Geometry*

Academic Experience

File System and Storage Lab, SBU Research Assistant, 05/2020 – 12/2020

- Wrote a static code analysis program to detect ambiguities in the NFS RFC model.
- Wrote a Spin model checker to detect possible design flaws in file systems.

College of Engineering and Applied Sciences, SBU Teaching Assistant, 08/2019 – 05/2020

Computational Geometry Supervised by Professor Joseph Mitchell

Data Structures Supervised by Professor Ahmad Esmaili

Applied Calculus Supervised by Professor William Bernhard

- Held office hours for students.
- Graded and gave feedback to weekly assignments and quizzes.

Course Projects

Redistricting System Co-developer, 09/2020-12/2020

- Designed a redistricting system that generating district plans with given thresholds.
- Used Spring Boot to handle requests and submit tasks to high performance computing clusters.
- Used Spring Data JPA to store and retrieve user information and district plan results.

Stock Trading System Co-developer, 01/2019-05/2019

- 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 updated data in the SQL database.
- Designed an auto-trade system based on stock price histories.

Skills (Selected)

Computer Programming: C (Advanced), Java (Advanced), Python (Advanced)

Database: MariaDB, MongoDB

Software Development Kit: Flutter

Certificate: IBM Data Science Professional Certification (Coursera)