Ka Long Ngai

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Education

SUNY Stony Brook University   **Expected Graduation May 2026**

Bachelor of Science in Computer Science   *GPA: 4.0*

Relevant Coursework: Systems Fundamentals I, Fundamentals of Software Development, Data Structures & Algorithms

Skills

- Programming Languages: Java (advance), Python (intermediate), HTML (intermediate), CSS (intermediate), JavaScript (intermediate), C/C++ (intermediate), Bash (novice), OCaml (novice), SQL (novice), Assembly (novice)
- Frameworks/Tools/Topics: Git, React.js, Node.js, Express.js, MongoDB, Functional Programming
- Languages: Fluent in English, Cantonese, Mandarin

Experiences

Residence Hall Association   **Stony Brook, NY**

RHA Senator   *September 2022 - Present*

- Participated in weekly meetings, including RHA and Hall Council meetings, which provided engaging activities for the hall's residents, with over 100 attendees
- Reported information between the Residence Hall Association and Hall Council, conducting effective communication between the two organizations
- Voted for candidates for executive positions through active discussion and debate, resulting in the selection of the most qualified candidate

JEI Learning Center   **Brooklyn, NY**

Teacher Assistance   *July 2023 - August 2023*

- Educated four students on a daily basis throughout summer, significantly improving their skill levels in both Math and English in preparation for SHSAT and SAT
- Facilitated an introduction to programming course for students, resulting in each student successfully solving CodingBat problems by the course's conclusion
- Mentored students in developing effective study techniques, time management skills, and test-taking strategies, leading to a notable increase in their ability and confidence to approach examinations

Projects

Fake Stack Overflow   **November 2023 - December 2023**

- Created a web app mimicking 15 Stack Overflow features with a secure RESTful API. User accounts are protected using bcrypt and express session, ensuring confidentiality and integrity for 90% of API requests.
- Used React.js for Front End Framework; Node.js, Express.js for Backend Framework; MongoDB for Database.

Spotify Shuffle Algorithm   **January 2023 - March 2023**

- Created shuffle algorithm that shuffle a Spotify playlist effectively and efficiently by measuring the program runtime and the listening to the shuffled playlist which improves the overall listening experience
- Used Java as the primary language, Node.js and Bash to retrieve and update data using Spotify API, along with Git as version control

Weather Report Bot   **October 2022 - November 2022**

- Developed a Discord Bot that generates weather reports based on user-specified locations, effectively increasing the accessibility of weather reports for users
- Used JavaScript as the primary language, Node.js framework specifically along with Git as version control