Nathaniel Chan

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Education: **Stony Brook University**   September 2016 – May 2020
B.S. in Computer Science
Dean's List

Relevant Courses

- System Fundamentals I
- System Fundamentals II
- Principles of Database Systems
- Principles of Programming Languages
- Analysis of Algorithms
- Computer Networks
- Computer Security Fundamentals
- Offensive Security
- Software Engineering

Skills: **Programming Languages:**
Java, JavaScript, Python, SQL, HTML, CSS, C#, C, MIPS Assembly, Apex,

Technologies/Tools/Frameworks: Express.js, React.js, Node.js, Git/Github, MySQL, Puppeteer, Selenium, Axios, Django, Flask, Bootstrap, VIM, Windows, Linux/UNIX

Experience: **Club: Intervarsity**
Large Group Co-Coordinator   September 2019 – May 2020
- Organized club's weekly meetings, by delegating tasks with team to coordinate with speakers, other leaders, and clubs.

Media Systems Engineering   April 2018 – May 2020
Student Assistant
- Repaired wide variety of technical problems on campus and the Health Science Center, ranging from media malfunctions to structural damage.
- Refabricated rooms with completely new technology, and new interiors.

The NPD Group   June 2019 – August 2019
Internal Systems Temp
- Assisted in company transition from Salesforce Classic to Salesforce Lightning by rewriting JavaScript modules into Apex and executing numerous unit tests to ensure identical functionality.

Projects: **C4ME, College Web Application** – MySQL, Express.js, React.js, Node.js, Puppeteer, Axios
- A MERN stack web application purposed to assist students in finding a school that best suites them based algorithms using web scrapped data and input information.
- Wrote web scraping scripts to acquire high school and college data using Puppeteer, SQL statements to interact with the database and the algorithm to score similar high schools with one another. Also connected the frontend to the backend using Express, React, and Axios.

Twitter CnC – Python, Twitter API
- Command and Control Python script where host can interact with clients by sending commands and extracting data through embedded .png files sent over Twitter.
- Created and tested server commands and handled script interaction with Twitter API.

Typosquatter – Python, Django, Pyppeteer
- Django web application to help users avoid typosquatting, or fake URLs, by compiling a list of possible typos along with a screenshot and the HTML after visiting the typo site with Pyppeteer
- Implemented initial master and worker node communication and multithreading for scalability of worker nodes.