

Nathaniel Chan

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Education: **Stony Brook University**

B.S. in Computer Science
Dean's List

September 2016 – May 2020

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

Extra Curriculars: Co-Coordinator of general body meetings for InterVarsity Christian Fellowship

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: **Media Systems Engineering**

Student Assistant

April 2018 – May 2020

- Assisted in repairs and installations across campus and the health science center.
- Managed and helped train new hires by demonstrating proper techniques when using power tools and best practices of the workplace.

The NPD Group

Internal Systems Temp

June 2019 – August 2019

- Assisted in company transition from Salesforce Classic to Salesforce Lightning by rewriting JavaScript modules in Apex and executing numerous unit tests to ensure persistent 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 through an algorithmic approach after taking in web scrapped data and user information.
- Achieved reliable and real time results by incorporating web scraping capabilities, and a custom algorithm to find best complementary schools.

Twitter CnC – Python, Twitter API

- Command and Control Python script where the host can interact with clients by sending and receiving data through embedded .png files sent over Twitter.
- Implemented server commands and achieved scalability through management of script interaction with Twitter API and multiple clients.

Typosquatter – Python, Django, Pypeteer

- Django web application to assist users in avoiding typosquatting, or fake URLs, by compiling a list of typos along with a screenshot and the HTML after visiting the typo site using Pypeteer.
- Executed scalability through multithreading implementation with initial master and worker node communication.