

Joshua Yam

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EDUCATION

NEW YORK UNIVERSITY

B.S. in Computer Science
Minor in Math + Cybersecurity
2020 | Brooklyn, NY
Dean's List '18, '19, '20

LINKS

Github:// [yamjoshua](#)
LinkedIn:// [joshua-yam](#)
Website:// [joshyam](#)

COURSEWORK

Data Structures and Algorithms
Design and Analysis of Algos
Object Oriented Programming
Computer Architecture
Software Engineering
Operating Systems
Data Analysis
Artificial Intelligence
Network Security
Information Security
Applied Cryptography
Penetration Testing

SKILLS

LANGUAGES

Python
C/C++
Javascript
Java
HTML
CSS
Bash

OTHER

Technologies:
Flask
Django
Node.js
Bootstrap
MySQL
React
Docker
Selenium
Spring
Git
REST
Latex

EXPERIENCE

ROOMSTER | SOFTWARE ENGINEERING INTERN

June 2019 – January 2020 | Manhattan, NY

- Served as a key team member in developing automated testing software using Selenium and Appium that would perform unit and regression tests on Roomster's desktop and mobile UI.
- Cut down time required to perform test cases from twelve hours to four hours using the new automated testing software.
- Converted several back-end services from C# to Python.

NYU | NETWORK SECURITY TA

September 2019 – January 2020 | Brooklyn, NY

- Conducted weekly office hours for over 50 students to help aid understanding of course material and graded exams and assignments.
- Helped students with developing Python scripts that either demonstrated or exploited key network-security concepts and common vulnerabilities.

DAI1 MEDIA GROUP | FREELANCE SOFTWARE DEVELOPER

June 2018 – September 2018 | Manhattan, New York

- Developed a PDF parser application using Python and the Tika library that was able to scan through hundreds of Chinese financial documents and generate a CSV file that extrapolated key bits of information.
- Proposed and executed the development of the application following Software Development Life Cycle guidelines and adhering to an Agile workflow.

NYU WEB AND MEDIA SERVICES | MEDIA SERVICES TECHNICIAN

September 2016 – May 2020 | Brooklyn, New York

- Troubleshoot and coordinated technical activities for 50+ classrooms.
- Wrote scripts to calculate employee hours and to create daily event checklists from Google Spreadsheets.

FASHION FANZINE | WEB DEVELOPER/PHOTOGRAPHER INTERN

June 2015 – September 2017 | Brooklyn, NY

- Implemented a responsive design to improve usability across multiple platforms.
- Integrated the Google Publisher Tags API in order to serve correctly sized advertisement content.

PROJECTS

CALL OF DUTY DISCORD BOT JANUARY 2021 - MARCH 2021

- Created a bot that runs off a RaspberryPi that makes requests to the official COD API to provide Discord users advanced player statistics and daily/weekly leaderboards.

PHOTOINSIGHTS SEPTEMBER 2019 - MAY 2020

- Developed a photo management and analysis application using React, Spring Boot, and a SQL database.
- Designed and implemented a RESTful API used for the processing of metadata and statistics from user photos.
- Maintained Git workflows as a version control tool.

SUDOKU SOLVER APRIL 2019 - MAY 2019

- Designed a program that could solve any 9x9 Sudoku puzzle efficiently using a Backtracking algorithm, MRV/Degree Heuristics, and Forward Checking.