

# Vanessa Chen

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## EDUCATION

### New York University, College of Arts and Sciences

New York, NY

B.A. in Computer Science, GPA: 3.93/4.0 (*Presidential Honors Scholar*)

Sep 2020 - May 2024

Relevant Coursework: Data Structures, Basic Algorithms, Object-Oriented Programming, Agile Software Development

### Stuyvesant High School

New York, NY

High School Diploma, GPA: 3.7/4.0

Sep 2016 - Jun 2020

Relevant Coursework: Artificial Intelligence, Computer Graphics

## WORK EXPERIENCE

### New York University, College of Arts and Sciences

New York, NY

*Basic Algorithms Grader*

Sep 2021 - Dec 2021

- Graded problem sets for an upper-level undergraduate computer algorithms course for up to 10 hours per week
- Provided detailed feedback on student solutions for problems on topics including dynamic programming, runtime analysis, and graph theory

### Roads to Success

New York, NY

*Success Coach*

Sep 2020 - Jan 2022

- Collaborated with 2 other facilitators to teach middle school students coding basics in a weekly Girls Who Code Club
- Led small group discussions to help students foster academic skills such as time management and growth mindsets
- Managed outreach by calling and emailing up to 120 guardians per week to promote upcoming student events, resulting in the recruitment of 10 new students

### Bright Leadership Academy

Staten Island, NY

*SAT English and Math Tutor*

Jul 2019 - Oct 2019

- Trained new employees on how to prepare problem sets and explain SAT concepts such as grammar and literary analysis
- Analyzed weekly practice test results to pinpoint students' weaknesses and customize worksheets to target those topics
- Prepared 4 to 5 daily SAT-level problem sets for a group of 5 high school students, 3 of whom scored 1500+ on practice SAT exams after extensive tutoring

## PROJECTS

### [Sorting Algorithm Visualizer](#)

Apr 2022 - May 2022

- Built a web app using ReactJS and CSS to help computer science beginners visualize popular sorting algorithms
- Animated Bubble Sort, Insertion Sort, Merge Sort, Selection Sort, and Quick Sort with play/pause options, speed adjustment, timer, and custom input

### [FitNet](#)

Feb 2022 - May 2022

- Developed a fitness-focused social media app for users to track workouts and interact with others through a general feed
- Built with a ReactJS front-end, ExpressJS back-end, MongoDB database, and deployed with DigitalOcean and Docker
- Adhered to the Scrum framework in a team with 5 other developers to successfully coordinate Daily Standups, Stakeholder Demos, and follow proper Git workflow

## SKILLS

**Programming Languages:** Java, JavaScript (React, Express, Node), Python, HTML, CSS, C, C++, Git

**Language:** Conversational Mandarin

**Activities:** Big Sibbs — Mentor for a class of 34 newly enrolled Stuyvesant High School students during their freshman year  
Step — Dance team member for multiple Stuyvesant High School dance shows and musicals for all 4 years