

# Victor Siu · Software Engineer

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## Education

**University of California, San Diego / Computer Science**

September 2021 - May 2025

- GPA : 4.0
- Organizations: Association for Computing Machinery (ACM)

## Experience

**Gordian Software / Software Intern**

June 2021 - August 2021, Remote

- Designed and implemented multiple command-line interfaces using Python to get data from airline APIs, and transformed that data from XML to JSON.
- Analyzed airline-specific price irregularities and developed a library using Python to correct them, resulting in prices accurate down to the nearest half-dollar.
- Developed an automated testing suite with Pytest for the rewriting of an internal library, reducing the rewriting time by nearly a week.

**Google Mentorship Program / Mentee**

December 2019 - June 2020, New York, NY

- Worked in a team to create a React and Flask web app that scrapes popular websites such as KBB and Edmunds for car data.
- Presented the data dynamically by comparing user-selected cars with other similar cars on the market with gold, silver, and bronze medals.

**The Stuyvesant Spectator / Web Editor**

Jan 2019 - Jan 2021, New York, NY

- Redesigned parts of the main website to make a more fluid user experience, such as a faster-loading search bar and a less cluttered footer.
- Created a new API endpoint in the content management system to facilitate the addition of new author/illustrator profiles.

## Projects

**Graphics Engine / Library for the animation of basic 2D and 3D shapes**

A library that can create simple animated shorts/images for various projects.

**Bashenger / C app for client-server communication**

An app that allows users to communicate client to client, with end to end encryption.

**CMS / User Interface for Database Management**

A user interface for creating/updating articles and users on stuyspec.com.

**Sort-Visualizer / A python-based simulation of different sorting algorithms**

A visualizer that shows sorting algorithms (quicksort, mergesort, bubble sort, insertion sort, etc) in action.

**Attendance-scanner / App for attendance taking**

A Flask app that utilizes Google OAuth, as well as Google Cloud for storage and server management.

## Skills

**Languages:**

Proficient: Python, Javascript  
Familiar: C, Java

**Software Development:**

Proficient: Git, Flask, Pytest, React.js, REST APIs, Ubuntu, Unix, Linux  
Familiar: Tensorflow, Ruby on Rails, AWS, Django