# Victor Siu

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## Education

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

Graduating June 2024

- GPA: 4.0
- Classes: CSE 223B (Distributed Systems), CSE 152A (Computer Vision), CSE 101 (Advanced Algorithms)
- Organizations: Triton Software Engineering - Project Manager for MERN app for a nonprofit, SDCTA

## Experience

**First Republic Bank /** Software Intern

June 2022 - August 2022,  New York, NY

- Automated system for user provisioning using Python on the Snowflake platform, saving hours of engineering time each month dedicated to manual provisioning.
- Aided in test migrations to AWS Aurora by testing data retrieval from various services, reducing concerns about compatibility with company systems.
- Built a React-Django app utilizing SnowSQL to show users existing roles on the Snowflake platform, significantly lowering the number of requests for new roles, and hosted with AWS Lightsail.
- Automated baseline rule verification on Snowflake with Pytest, saving the lead engineer an hour quarterly.

**Gordian Software /** Software Intern

June 2021 - August 2021,  Remote

- Designed and implemented four command-line interfaces using Python to get obfuscated XML data from various airline APIs, and transformed that data into JSON for further analysis.
- 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 a testing suite with Pytest while rewriting an internal library, ensuring backward compatibility.

**Google Mentorship Program /** Full Stack Developer

December 2019 - June 2020,  Remote

- Scraped car-dealing websites and analyzed the car data to sort into different SQLite tables.
- Created a Flask backend that fetches specific cars based on a user's input, as well as a recommendation algorithm to find new cars the user may show interest in.
- Utilized a minimalistic React frontend to display the cars and dynamically rank cars that the user likes.

**The Stuyvesant Spectator /** Lead Full Stack Developer

January 2019 - January 2021,  New York, NY

- Facilitated the addition of new author/illustrator profiles in the CMS by creating a new Ruby API endpoint and building a corresponding React admin interface to take inputs.
- Redesigned the search page to reduce latency and decluttered the footer of the consumer-facing website using React.
- Monitored the server hosted on AWS Lightsail and limited server downtime to less than an hour a month.

## Certifications

AWS Certified Cloud Practitioner: August 2022 - August 2025

- Experience with Lightsail, Aurora, Elastic Beanstalk, EC2

## Skills

**Languages:**

Proficient: Python, Javascript/TypeScript
Familiar: C, Java, C++, Go

**Software Development:**

Proficient: Git, Scrum, Agile, Linux/Unix, React.js
Familiar: Ansible, Docker, Django, Snowflake, MongoDB, SQL