

Victor Siu

vsiu20@gmail.com · vs2961.github.io · github.com/vs2961

Education

University of California, San Diego / Computer Science

June 2021 - June 2024

- Classes: CSE 223B (Distributed Systems), CSE 152A (Computer Vision), CSE 101 (Advanced Algorithms)
- Organizations: Triton Software Engineering - Engineering Manager for MERN app for a nonprofit, SDCTA
- GPA: 3.8

Experience

DocuSign / Platform Software Engineer Intern

June 2023 - September 2023, San Francisco, CA

- Synchronized multiple internal Salesforce objects between production and development sandboxes with AWS Lambda and Node.js, replacing a tool costing \$60k annually, and saving dozens of hours of engineering time.
- Created a monitoring system using Datadog and rotated application secrets with AWS Secrets Manager, ensuring continuous monitoring and security of the application.
- Worked in an agile environment with QA testers, code reviews, and sprint planning to ensure on-time delivery of quality code, and carried out UAT and Hypercare afterward to fully offboard the project.

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-Flask 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 Python library 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 / Software Intern

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 and 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 vehicles 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.

Skills/Certifications

Languages:

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

Software Development:

Proficient: Git, Agile, Linux/Unix, React.js, Salesforce
Familiar: Testing (Pytest/JEST), Datadog, Snowflake

Certifications:

AWS Certified Cloud Practitioner: August 2022 - August 2025 - Proficient with EC2, Lightsail, Aurora, Lambda