

Sophie Guan

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EDUCATION

University of California, Santa Barbara

B.S. Computer Engineering, Regents Scholar, Engineering Honors Program

De Anza College, West Valley College

Dual Enrollment, focused on Computer Science

Lynbrook High School

High School Diploma, 3.92/4.00

Anticipated 2024

Santa Barbara, CA

2019 – 2021

Cupertino, CA

2017 – 2021

San Jose, CA

SKILLS & COURSEWORK

- **Language/Framework:** Java, Python, C++, React, Bootstrap, JavaScript, Spring Boot, Flask
- **Coursework:** Data Structures and Algorithms, Object Oriented Analysis and Design, Intermediate C++, Discrete Mathematics, Differential Equation, Linear Algebra, Algorithms I & II (Princeton open course)

WORK EXPERIENCE

Math Tutor

Brighter Future Learning Center

Aug 2019 – April 2020

San Jose, CA

- Afterschool learning center for students from middle school to high school grade levels.
- Taught students mathematic skills ranging from pre-Algebra to Calculus
- Administered lessons one-on-one as well as in groups of three to twenty

PROJECTS

Twitter User Insights

Twitter API, IBM Natural Language Understanding API, Twitter4J

Aug 2021 – Present

[GitHub](#)

- Analyze frequent emotions and keywords from Twitter user
- Implemented IBM Natural Language Understanding API to analyze tweets and generate emotions and sentiment report on main ideas and user-defined keywords
- Organize and restructure data into .csv files for queries and readability

Passport Photo Formatter

Java, Spring Boot, JavaScript, React, Bootstrap

June 2021 – Sept 2021

[GitHub](#) | [Heroku](#)

- Format user-input image into standard U.S. passport photo dpi, size, and 4" x 6" layout for printing
- Utilized OpenCV facial recognition to auto focus and resize portrait image to face
- Built interactive front-end upload page with JavaScript, React, and Bootstrap
- Implemented relevant Java graphics libraries and API to modify various types, sizes, and dpi

Fanfiction.net to Archiveofourown transfer (FTO3)

Python, Flask, JavaScript, React, Bootstrap

July 2021 – August 2021

[GitHub](#) | [Heroku](#)

- Transfer any works from fanfiction.net to Archiveofourown.com using web scraping
- Solution for ffn's tedious file downloading/transferring and AO3's lack of transferring options for ffn
- Extracting, converting, and transferring relevant metadata for tags and warnings

INTERESTS

Writing; biking; piano; orchestral pop; sliding puzzles; graphic design; paper cranes; noodle soup; breakfast;