

# Sophie Guan

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## EDUCATION

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### 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

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- **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

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### 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

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### 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

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