Sophie Guan

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EDUCATION

University of California, Santa Barbara   **Anticipated 2023**
B.S. Computer Engineering, Regents Scholar, Engineering Honors Program   *Santa Barbara, CA*
- Editor and webmaster for *Over the Water*, a community podcast on UCSB life and culture

De Anza College, West Valley College   **2019 – 2021**
Dual Enrollment, focused on Computer Science   *Cupertino, CA*

Lynbrook High School   **2017 – 2021**
High School Diploma, 3.92/4.00   *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   **Aug 2019 – April 2020**
Brighter Future Learning Center   *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   **Aug 2021 – Present**
Twitter API, IBM Natural Language Processing API, Java, Spring Boot, React
- Analyze most frequent emotions and keywords from Twitter user
- Implemented IBM Natural Language Processing API to analyze timeline and generate emotions and sentiments report
- Organize and restructure data for readable front-end display

Passport Photo Formatter   **June 2021 – Present**
Java, Spring Boot, JavaScript, React, Bootstrap   [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)   **July 2021 – August 2021**
Python, Flask, JavaScript, React, Bootstrap   [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;