Sophie Guan

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EDUCATION

University of California Santa Barbara, Santa Barbara, CA
B.S. Computer Engineering, expected 06/2024
Honors: Regents Scholar, Engineering Honors Program
Organization: Society of Women Engineers (SWE), Archery Division (Chair)

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

SKILLS

Language: C++, Verilog, Python, Assembly
Tools: MATLAB, ModelSim, SPICE, Altera Quartus II

COURSEWORK

Digital Design Principle, Analog and Digital Circuits & Systems, Discrete Mathematics, Probability and Statistics, Differential Equation, Linear Algebra

EXPERIENCE

Salesforce   Software Engineering Intern   June – Sept 2022
- Implemented manual inputs to allow users to enter data as text fields and checkboxes instead of dropdown menus which are unavailable to Government Cloud users
- Fixed malfunctioning poor usability bug in production by redesigning section visibility and autosaving function to be conditioned on specific permission status

Brighter Future Learning Center   Math Tutor   Aug. 2019 – April 2020
- Taught students mathematic skills ranging from pre-Algebra to Calculus
- Administered lessons one-on-one and to classes

PROJECTS

Twitter User Insights
Java, React.js, Twitter API, IBM NLU API, Twitter4J
- Implemented IBM Natural Language Understanding API to analyze tweets
- Generated emotions and sentiment reports on main ideas and user-defined keywords
- Organized and restructured data for queries and readability

Passport Photo Formatter
Java, Spring Boot, JavaScript, React.js, Bootstrap, OpenCV, Heroku
- Format user-input image into standard U.S. passport photo dpi, size, and 4" x 6" layout for printing
- Implemented OpenCV facial recognition API to crop images to face

Web-scrape File Transferer
Python, Flask, React.js, Bootstrap, Heroku, Selenium
- Built web-scraping solution to automatically transfer and republish text files between two specific story archives

Call Number Location
JavaScript, HTML, CSS
- Chrome Extension to inject floor and shelf location of UCSB library catalog items

HOBBIES/INTERESTS   Writing; biking; Star Wars; kalimba; piano; graphic design; archery; noodle soup;