



## Malia Barker

A curious and collaborative student ready to contribute to the intersection of computer science and physics.

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## Experience

### **CSSI: ONLINE PARTICIPANT, GOOGLE – SUMMER 2021**

- Participated in a four-week intensive computer science summer program for high-achieving students and completed an introductory project-based JavaScript processing curriculum taught by Google engineers
- Attended product design, resume development, and software engineering interview workshops
- Configured twenty individual coding projects in JavaScript by using concepts such as variables, data types, and functions. Delivered a collaborative final project presentation that included a live demonstration to Google employees and community leaders

### **DR. HSIN-YI SHIH'S ASTRONOMY SEMINAR AND PAPER – FALL 2018**

- Identified eight double-star systems from the Stelle Doppie database in order to analyze position angle and arc length and update database records accordingly
- Utilized AstrolmageJ software package to process images obtained from the Las Cumbres Observatory network, performing additional research as needed to verify reliability of outlier data
- Results recorded for publication in April 2019 issue of *Journal of Double Star Observations (JDSO)*

## Education

Dominican University of California, San Rafael, CA, Bachelor's of Applied Computer Science 2023

University of Hawaii Maui College, Kahului, HI, Dual Enrollment 2019

Kihei Charter High School, Kihei, HI, High School Diploma 2019

## Skills

- Practiced real world applications of teamwork and collaboration by contributing, merging, and creating pull requests through the git protocol.
- Practiced applications of languages, web frameworks, databases, and front end development through 29 GitHub repositories including Javascript, Python, Flask, MongoDB, HTML, custom css, and bootstrap.
- Utilize Google's Colab notebooks to create 4 unique sets of data analysis and visualization using datasets including Kepler Exoplanet data, Palmer Penguins data, and Big Cities Health Coalition data.
- Created 5 live online applications hosted by Heroku.
- Created two projects that were proposed and pitched to a board of instructors and students.