Emily Tom

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EDUCATION

University of California, Irvine	**Expected Graduation: June 2027**
Bachelor of Science in **Software Engineering**	**GPA: 3.757**
Maui High School, Kahului, HI	**Class Rank: 1/443**

Courses: Boolean Logic, Intermediate Programming, Discrete Mathematics, Python Programming with Libraries (Accelerated)

Work Experience

Bank of Hawaii *(June 2023 - August 2023)*
Information Security Intern *Honolulu, HI*
- Increased company's monthly license review efficiency through the design and implementation of a dashboard in **Splunk** displaying data regarding license usage, team member information, and program space usage.
- Collaborated with a team of **4** interns to design and improvise a **business email compromise** report through the use of phishing software (**PhishER**).
- Connected with cybersecurity field professionals developing skills in brute force password security checks, data loss prevention practices, and international travel security authentication.

Privateer Space *(June 2022 - July 2022)*
Research & Design Intern *Kihei, HI*
- Developed, designed, and presented a project proposal with **3** interns for a **CubeSat** satellite capable of withstanding short-term spacial radiation and measuring data using sensors to company heads and internship managers.

Maui High School Robotics Club *(August 2014 - January 2023)*
Programming Captain *Kahului, HI*
- Collaborated with **30** team members to design robots and programs addressing various challenges each year.
- Taught programming logic and standard practices in **Java** and **C++** to local secondary and intermediate teams.
- Competed on an international level at **First Robotics Competitions World Championships** (2022) with hundreds of qualifying teams organizing autonomous programs.

Maui High School CyberPatriots *(August 2019 - May 2023)*
Co-Captain *Kahului, HI*
- Recruited, trained, and competed with a team of **15** in securing **Ubuntu**, **Windows**, and **Cisco** machines.
- Studied and applied **Linux** programming language and terminal commands to implement cybersecurity practices within a virtual machine.

Maui High School Girls Can STEM *(August 2020 - May 2023)*
President *Kahului, HI*
- Organized community speaker presentations of local pioneers in the STEM field to secondary students.
- Designed and implemented annual workshops hosted at local elementary schools introducing young female students to STEM concepts and connecting them with successful mentors across various fields.
- Administered club involvement in the **Hawaii STEM conference** and cybersecurity competitions.

Projects

Robotic Bar Climbing Automation *(February 2022): Java*
- Utilizing data from sensors, coordinate-based gyros, and Proportional-Integral-Derivative controller automation, created a program allowing a 100-pound robot to climb a sequence of ascending bars, starting at 5 feet with flexibility for minor driver adjustments.
- Implemented simultaneous control over separate robotic lift mechanisms and easily accessible camera views for driver view.

Location-Based Weather Data Collection *(November 2023): Python, JSON*
- Collects various types of user input, coordinate or location description, to gather weather information from the National Weather Service Web API filtered.
- Filters through data and returns information filtered and optionally calculated based on user input requests.

Visual Puzzle-Based Connect Four Game *(December 2023): Python*
- Display and allow a user to play in various modes against a second player or a server-based Artificial Intelligence player in a game of drop-and-pop connect four

Additional

Skills: Java, C++, Python, Splunk, Linux, PhishER, Cisco, Canva, Final Cut Pro, Adobe AfterEffects, Github