

# Aliya Ware

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## EDUCATION

<b>University of Oregon</b> , Eugene, OR	2019 - Expected Jun. 2023
Major: Bachelors of Science in Computer Science, 3rd year	
Minor: Sustainable Business	
GPA: 3.8/4.0	
Honors: Academic Scholarship Recipient, Dean's List	2019-2021

## LANGUAGE PROFICIENCY

**Programming:** *Comfortable with:* Python, C    *Familiar with:* C++, HTML, Javascript  
**Human:** Semi-fluent in Spanish

## RELEVANT COURSEWORK

### Intermediate Algorithms:

Implemented basic graph and sorting algorithms. Analyzed their amortized complexity. Covered different problem models and complexity classes, e.g. satisfiability and NP-completeness.

### Data Structures:

Learned about and implemented a variety of data structures such as queues, trees, and vectors. Identified and analyzed time and space complexity tradeoffs between different algorithms.

### Computer Architecture:

Explored the usage of a typical ISA. Analyzed the relationship between C code and data-transfer, control instructions. Optimized programs with respect to instruction count, and memory-access patterns.

### Operating Systems:

Learning about the theory and practice behind modern operating systems. We are building kernels, understanding scheduling algorithms, threading, system calls, deadlocks and memory.

### Software Development:

Collaborated with a team of students to organize and develop a program that calculates the most optimal route for businesses to take in order to make deliveries. Our program uses Prim's algorithm and Google Maps API to find and render the most optimal route. We built it using flask and react: <https://traveler-us8cr.ondigitalocean.app/>

## WORK AND VOLUNTEER EXPERIENCE

### University of Oregon Clubs

Treasurer and co-founder, Developers club	Apr. 2021- Present
Treasurer of Women in Computer Science	Oct. 2021- Present
Member of Delta Delta Delta	Oct. 2020 - Present
Member, Women in Computer Science	Oct. 2019 - Present
Member, Women in Business	Oct. 2019 - Present

### Assistant Property Manager: CR Management | Los Angeles, CA

Jul 1- Sept 10, 2020

Organized and created online manuals/instruction sets for each building manager.

Prepared rent raises, wrote letters of correspondence/memos, listed properties available for rent.

### Volunteer for Migrant Academy of Knowledge and Engineering | Watsonville, CA

Apr. 1-May 1 2017

Lead kids through different engineering exercises and projects. Taught basic physics concepts.

## INTERESTS AND HOBBIES

### CS Related:

- Interested in cybersecurity/Cryptography, secure multi-party communication, AI, anything related to coding up something with some interesting cybersecurity applications!
- Working on providing basic web scraping projects to members in the Developers Club.

### Outside CS:

- Traveled to Hermiston, OR and collaborated with the city council to make a plan for the development of a sustainable city within a 40-acre empty slot of land in their town.
- Growing up in Santa Cruz, CA I would surf every weekend and to this day still love and do it whenever I can.
- Awarded the All-American water polo player award as well as the All-Academic award. Was team captain.