SELAM WELDU

(415) 717-7154   ssweldu@gmail.com   **PORTFOLIO**   **GITHUB**   **LINKEDIN**

EDUCATION

Computer Science - Ohio Wesleyan University, Columbus,OH   August 2016 - May 2020
- *Relevant Courses*: Intermediate Computer Science and Data Structures, Algorithms, Discrete Mathematics, Computer Organization, Multivariable Calculus, Applied Statistics, Theory of Computation, Artificial Intelligence, Heuristics for NP-Complete Problems, Paradigms of Computation
- **Scholarships/Awards:** Bashford International Scholarship, Dean's List

Web Development - App Academy   May 2019-August 2019
- *Coursework*: Rails, SQL, JavaScript, React, Redux, TDD, algorithms, and programming best practices.

TECHNICAL SKILLS Python,C++, Javascript, React, Redux, PostgreSQL, Flask, Django, AWS S3, Git, MongoDB, Node.js

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EXPERIENCE

Software Engineer | live | github   July 2019 - August 2019
Cravings - Personal Project (MongoDB, Express, React, Node.js, React-leaflet)
- Leveraged the Yelp API by adding custom search algorithms to populate MongoDB with relevant and engaging seed data.
- Utilized query strings that passed user parameters to custom Axios calls, reducing the size of the response payload and returning pre-filtered results to react components.
- Built rich map experience by using a react-leaflet map, resulting in faster render time and smooth zoom interpolation.

Software Engineer | live | github   June 2019 - July 2019
WaterBnB - Personal Project (React, Redux, RubyonRails,, Javascript, PostgreSQL, Google Maps API)
- Implemented secure frontend and backend authentication using BCrypt to ensure user privacy and autonomy.
- Integrated Google Maps API with geolocation-based searching to process and dynamically present business locations based on user input.
- Hosted images in the cloud using AWS S3, and utilized a one-to-many polymorphic table on the database level, decreasing server load, DRYing up code and allowing for scalability of the app.

Calculus Tutor
Ohio Wesleyan University   September 2017-May 2018
- Provided weekly one-on-one tutoring to five students in single variable and multivariable calculus.
- Conducted comprehensive test review sessions by developing numerous concept sheets and review packets resulting in an increase of more than 25 percent in some students' grades.
- Specialized as a tutor by simplifying math concepts while coaching students to think critically to solve problems.

LEADERSHIP AND AFFILIATIONS

Volunteer
SBP | Disaster and Humanitarian Relief, Puerto Rico and New Orleans   October 2017 - Present
- Helped rebuild family homes in Puerto Rico and New Orleans destroyed by Hurricane Maria and Katrina respectively.
- Fundraised over 40% of the money needed to make the trip along with a student group.

Residential Assistant
Ohio Wesleyan University   August 2018 - Mar 2020
- Responded and assisted to the needs of 46 residents on a floor with a Co-RA
- Managed administrative tasks including maintenance requests, room change process and incident reports.

Co-founder and Vice-President
African Student Union(Rafiki)   June 2017 - May 2019
- Worked to change the image of Africa by bringing forth untold narratives of the continent through highlighting the beauty, culture, and technological innovations taking place.
- Organized events that hosted 100 - 200 people with themes ranging from fashion shows and concerts to panels discussing the diaspora's place in inclusion and diversity.