Victor Muljo

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EDUCATION

University of Southern California – GPA: 3.86/4.00 *Los Angeles, CA*
Bachelor of Science in Electrical and Computer Engineering Expected: May 2023
Minor in Web Technologies and Applications

- Involvement: Institute of Electrical and Electronics Engineering, CASA, TAO

Mount San Antonio College – GPA: 3.93/4.00 *Walnut, CA*
Transfer preparation for Electrical Engineering August 2018–June 2020

SKILLS

- *Programming Languages*: C/C++, Python, JavaScript, HTML, CSS
- *Hardware*: Digital Multimeters, Oscilloscopes, Waveform Generators, Arduino Uno, Raspberry Pi

PROJECTS

Q (Queuing System) - *https://github.com/vmuljo/queuing-system-app* May 2022–Current

- Designed and created queuing system to solve customer dissatisfaction within retail environments to find an available associate for extended assistance using JavaScript data structures and front-end development tools.
- Utilized JavaScript to create an admin toggle within HTML body to enable admins/employees to access and modify Guest object members within the queue to improve monitoring and organizing in the workflow.
- Implemented animations combining CSS keyframes and JavaScript to improve visual and interactive user experience.

Network Connection System – *(Software Design for Electrical Engineers - USC)* Spring 2022

- Applied C++ OOP knowledge with classes to create a network connection system to improve team creation process and collaboration between team members.
- Implemented a doubly-linked list data structure to store Person objects within the Network object to improve efficiency with O(n) search and deletion and O(1) insertion time complexities.
- Utilized private membership to allow a set of people to connect with each other and share contact information between connections without making their information publicly available.

Mini-Projects for Data Structures and Algorithms - *https://github.com/vmuljo/miniprojects* May 2022–Current

- Applying fundamental data structure and algorithm techniques to a collection of basic programs using C++ for further understanding with time complexity and efficiency in mind.
- Comparing solutions involving data structures with standard solutions to analyze real-time differences in run time.
- Built a Graph class utilizing the lookup efficiency of unordered map/hash map data structure to apply to graph-related algorithms, such as Breadth-First Search.

RELEVANT COURSEWORK

- Software Design for EE (Data Structures and Algorithms), Front-End Web Development, Intro to Python, Probability and Statistics, Computer Programming with C++, Embedded Systems, Distributed Systems for the IoT
- *Planned: Advanced Front-End Web Development (Fall 2022), Back-End Web Development (Fall 2022)*

WORK EXPERIENCE

Sunright Tea Studio - Tea Barista September 2019–July 2020

- Collaborated with coworkers in the creation of products to maximize efficiency in workflow within work environment
- Managed store supply and communicated with higher-ups to ensure products are up to standards.
- Adapted to changes in workflow through communication with coworkers to ensure timely completion of products in the kitchen.