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 built queuing system using data structures and frontend tools to solve customer dissatisfaction within retail environments by assigning an available associate to customer for extended assistance upon call up from queue.
- Utilized JavaScript to create an admin toggle within HTML body to enable users 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)* January 2022–May 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.