Orlando J. Miguel

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Education

George Mason University, Fairfax, VA - **Senior**   Expected May 2021
B.S. Computer Science   GPA 3.3

Relevant Coursework

- Intro to AI (Python)
- Software Eng. (Python/Discordpy & Agile)
- Mobile Application Development (Java/Android)
- Data Structures (Java)
- Analysis of Algorithms
- Object-Oriented Programming (Java)
- Intro to Low-level Programming (C/Unix)
- Computer Systems and Programming (C/x86-68)
- Intro Computer Programming (Python)
- Computer Programming for Engineers (C/Unix)

Skills

- **Programming Languages** – Python, Java, MATLAB, C, HTML, Swift, Assembly
- **Technical Skills** – Linux, Git, Terminal, Vim, Object Oriented Programing, Data Structures, DaVinci Resolve, Microsoft Office, Android Studio, PyCharm.
- **Languages** - English and Spanish

Projects

RFID Codec & Bitwise Manipulation, Computer Systems and Programming
- Read a 64-bit sequence in a RFID Tag and decoded into a specific format using shift and bitwise operations in C.
- Given two separate number codes find their parity bit and encode them into raw data.
- Used dynamic and statically allocated structs and integers by reference to store values.

Priority Queues & Heaps/Tree Assignment, Data Structures
- Implemented Priority Queues using three different data structures in Java.
  - Binary Min tree, K-ary Min Heap, and Binomial Min Heap
- Reported each implementation's performance and its results were printed via Terminal.

Linked List Music Playlist, Intro to Low-level Programming
- Created a linked-list implementation of a music playlist in C.
- Allows its user to create and modify a sequence of songs chosen from a music library.
- Each song's node contained information about the album, artist, and length.

Work Experience

STAR LAB Mentor, George Mason University, Fairfax, VA   Apr. 2019 – Sept. 2019
- Provided peer mentoring and assistance to students/faculty in the development of multimedia related projects.
- Performed pre- and post-operation inspection of video and audio equipment.

Student Caller, George Mason University, Fairfax, VA   Feb. 2019 – Apr. 2019
- Contacted alumni, parents and friends of Mason for fundraising.
- Collected information from callers to accurately update Mason's files.

Leadership & Organizations

National Member of Society of Hispanic Professional Engineers   Oct. 2019 – Current
Member of Theta Tau Professional Engineering Fraternity   Feb. 2019 – Dec. 2019
Athletics Chair for Theta Tau Professional Engineering Fraternity   May 2019 – Dec. 2019
- Coordinating intramural teams for members to participate in every season.
- Collaborating with other chairs including Professional Development and Fundraising to incorporate an athletic aspect in their events for team building.

Academics Chair for Theta Tau Professional Engineering Fraternity   Feb. 2019 – May 2019
- Organized a list for 11 prospective members to keep track of study hours.
- Planned 4 chapter-wide study sessions throughout the semester to help members study during midterm and finals season.