

LAURENCE R. MULLEN

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Fort Lauderdale, FL

EDUCATION

Bachelor of Science in Computer Science, Cum Laude

University of Florida, Gainesville, FL

April 2022

- Minor in Environmental Science
- Cumulative GPA: 3.77/4.0
- Notable courses include Data Structures and Algorithms, Networking, Databases, Data Science, Design Patterns and OOP, Computer Security, Statistics, Numerical Analysis, and Performant Programming in Python

EXPERIENCE

Contract Website Development

Denison Yacht Sales – Fort Lauderdale, FL

August 2018

- Developed modern website tailored to meet needs of client
- Built from scratch using HTML, JavaScript, and CSS
- Gained experience deploying and maintaining a site on WordPress

Smart and Healthy Vending

Team Manager – Fort Lauderdale, FL

November 2016 – June 2018

- Oversaw daily duties of 5 employees
- Managed inventory and purchased new stock
- Placated customer concerns and assisted in stocking machines at three different locations

PROJECTS

Symmetric Knee Implant Analysis Plugin for Joint Track Auto

Symmetry Trap Tool – Senior Project – UF BRIO Lab

January-April 2022

- Created a GUI plugin to aid research in Automated Model-Image Registration of Joint Kinematics
- Written in C++ utilizing Qt, VTK, OpenCV, cuDNN, libtorch/PyTorch
- Replaced a brute force algorithm, using linear algebra concepts, reducing runtime to 1.5% of previous time
- Created quality UML diagrams, documentation, and presentations

Simulated Software Engineering Experience

Activist Agenda – Software Engineering Final Project

June-August 2020

- Collaborated in a team to develop a web application in support of Black Lives Matter movement
- Built using MERN stack and deployed on Heroku
- Frontend and Backend Development using Agile development methodology
- Gained experience writing documentation and communicating effectively with a client

NOTABLE SKILLS

- Experience in C++, C, Java, Python, Julia, SQL, JavaScript, MatLab, and HTML/CSS
- Experience working with Linux, Git, Docker, Ansible, Nginx, and managing a server
- Confident in writing ability and proficient at creating quality documents with Excel and Word
- Skilled and persistent at identifying issues and creating solutions, utilizing advanced research and analytical skills
- Leadership and management skills as an Eagle Scout