**Drew Pulliam**

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**OBJECTIVE**

Software Development internship/co-op for Summer 2020

**EDUCATION**

B.S. in Computer Science | University of Texas at Dallas (UTD) | Dec 2021

* GPA: **3.981**

A.S. in Sciences | Lone Star College | May 2019

* GPA: **3.810**

**INTERNSHIPS**

NASA Johnson Space Center - Robotics Academy Internship (Summer 2019)

* Designed controls for miniature moon rover using microcontrollers and C/C++
* Created a user interface that allows the driver to have control over speed and direction
* Tested control software on a prototype moon rover

**TECHNICAL SKILLS**

* **Programming Languages:** Java, C/C++, Python, SPIM Assembly Code
* **Software:** Microsoft Office Suite, Visual Studio, Eclipse

**PROJECTS**

**FIRST Robotics Competition (FRC) Robot Software (Java)**

* Implemented and maintained controls software for FRC robots using Java
* Optimized robot speed and safety using state machines
* Created path following program using spline curve fitting to drive the robot autonomously
* Integrated multiple sensors to allow for feedback loops in all robot subsystems

**Data Scraping Tool for FRC (Python)**

* Programmed a Python script to pull JSON data from a web API
* Utilized an existing library to assist in scraping data from the API
* Compiled and outputted the data into an easily viewable .csv file

**Robot Simulation Game (Python)**

* Demonstrated kinematics of a holonomic robot drivetrain using Python
* Exposed the robot motion vectors graphically to allow for better user understanding

**SPIM Assembly Programs (SPIM)**

* Utilized registers and the stack to create programs using loops and branches in SPIM
* Performed multiple different arithmetic and string operations

**AWARDS/HONORS**

**National Merit Scholarship:** Scored top 1% of high school students in nation on PSAT and SAT

**Eagle Scout Rank:** Planned and completed a community service project and other requirements

**UTD Dean’s List:** Top 10% of all undergraduate students