**Jack Jones**

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**EDUCATION The University of Texas at Dallas,** Richardson, Texas

Bachelor in Computer ScienceGraduated December 2023

GPA: 3.727 Cum Laude

**Microsoft Certification : Azure AI Fundamentals**

**Class Projects**

* **Raytheon Drone Competition**: Collaborated with Raytheon and fellow students to develop a cutting-edge drone and ground vehicle. The drone would locate other ground vehicles and spray them with water. Specialized on developing the computer vision features of the drone.
* **Pipe Anomaly Detection:** Worked with a team to develop a computer vision system that would recognize damage on underwater pipes using a Convolutional Neural Network (CNN).
* **Slider Stack Game:** Worked with a team to develop a Unity-based game where users assemble virtual sandwiches by sliding a bun and stacking ingredients to match a menu.
* **Flight Path Algorithm**: Independently developed a program utilizing an iterative backtracking algorithm to identify optimal flight routes between airports.
* **Kanban Board:** Collaborated with a group to develop a prototype Kanban board application.

**INTERNSHIP Space View**, Japan September 2022 – October 2022

**EXPERIENCE** Software Developer

* Developed the company’s virtual reality platform using the Unity Library.
* Created 2 city blocks, added a new avatar.
* Added new tools, features, and objects to allow the user to better interact with the objects in the virtual platform.

**ROBOT** [YouTube presentation on the robots](https://www.youtube.com/watch?v=MOAKe1YCaEE&t=4s)

**BUILDS** Conceived**,** designed, built, and programmed fully autonomous robots.

* **Coffee Robot (In Progress):** Simulates making coffee by making chocolate milk and placing a cap on the cup. This will eventually create nearly any coffee autonomously through an app.
* **Sidewalk Robot**: Follows sidewalks using vision. Successfully tested to drive for miles while carrying a heavy payload.
* **6Can Robot:** Competed in the DPRG 6Can fall 2018 and summer 2023 competition, earned third place.

**TECHNICAL PROFICIENCY**

**Proficiency: C++, Python, Java, Arduino, C#, Unity;**

**Intermediate: Linux, MIPS, Racket, Prolog**