

# Jack Jones

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## EDUCATION

The University of Texas at Dallas, Richardson, Texas

Bachelor in Computer Science

Anticipated Graduation December 2023

GPA: 3.674

## 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) and then create a 3D scan of the area.
- **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](#)

## 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