

# Diego Isaiah Ochoa

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## Education

Bachelor of Science in Computer Science  
The University of Texas at Dallas, Richardson, TX

Expected Graduation: May 2023  
GPA: 3.557

## Skills

Languages: C#, Java, C++

Development: Unity, Visual Studio, Eclipse

## Academic Projects

**Raycast game engine:** created a game engine in java that utilizes raycasting to render out the world and characters.

**Conway's game of life circuit board:** designed an efficient recreation of Conway's Game of life using logic gates.

**Java API system:** calls a website's API system and reads the JSON data.

## Personal Projects

**Unity state machine system:** created a scripting system for unity that controls all aspects of the game with state machines.

**Genetic algorithms AI path finder:** bots that use genetic algorithm to find a path around a track

**Wave function collapse art generator:** given an art piece based on a 2D tile set, it creates a similar image by contextualizing what tiles can be next to each other.

**3D FPS movement system:** based on Titan Fall movement system, features sliding, wall running, momentum and grapplehook .

## Work Experience

**University of Texas at Dallas**  
**Recreational Center Attendant**

2022-2023: Managed and cleaned gym areas, as well as sign in gym guests and managed phone calls.

**University of Texas at Dallas**  
**Unity Programmer**

2019-2021, School Year: Work as a Unity C# programmer creating scripts on a project to teach students physics. My primary task was creating a graph system to display displacement, velocity, force, and acceleration over time.

**Crowley Independent School District**  
**Maintenance and Repairs**

Summer of 2018-2021: Diagnosed, ordered parts, and repaired disabled laptops. Prepared new laptops for incoming students to be ready use on first day of school. Close communication with Dell EMC TechDirect.

## Academic Activities

Student Game Developer's Associations  
Hack UTD 2021/2022

## Itch Portfolio:

<https://diego-ochoa.itch.io/>