**Diego Isaiah Ochoa**

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**Education**

Bachelor of Science in Computer Science Expected Graduation: May 2023

The University of Texas at Dallas, Richardson, TX GPA: 3.557

**Skills**

Languages: C#, Java, C++

Development: Unity, Visual Studio, Eclipse

**Academic Projects**

**Raycast game engine:** created agame 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:** callsawebsite’sAPI 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 Fallmovemen**t** 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/