

# DANI AMIR

972-399-6131 | [linkedin.com/in/dani-amir](https://www.linkedin.com/in/dani-amir) | [daniamir2001@yahoo.com](mailto:daniamir2001@yahoo.com) | [daniamir.me](https://daniamir.me)

## EDUCATION

**The University of Texas at Austin**, Austin, TX

May 2023

*Bachelor of Science in Computer Science*

**Relevant Coursework:** Introduction to Programming, Data Structures & Algorithms, Computer Architecture, Operating Systems, Linear Algebra, Game Technology, Game Programming Paradigms

## SKILLS

**Languages:** C, C++, Python, C#, JavaScript, HTML/CSS, Java

**Technologies:** Unreal Engine 4, Unity 3D, React Native, Godot, Selenium, Git, GNU Debugger, Visual Studio

## PROJECTS

### Boulder Run (2021)

- A game developed using **Unity 3D** where the player must reach the top of a hill while avoiding boulders
- Implemented a custom character controller coded in **C#** which allows third-person camera rotation and movement
- Designed and created a streamlined UI for the main menu of the game
- Efficiently reduced lag and managed memory by implementing a script to delete unused game objects, which led to a 15% increase in frame rate

### Soccer Simulation (2021)

- A 5 vs 5 soccer game developed using **Unreal Engine 4**
- Designed and implemented an AI class for the players on the pitch
- Implemented behaviors such as dribbling, chasing the ball, and returning to home positions in **C++**
- Used behavior trees to execute certain tasks based on conditions on the soccer pitch

### Wipeout (2021)

- A game developed using the **Godot** engine where the player must get through an obstacle course and reach the trophy at the end to win
- Designed and created an obstacle course in **Godot** with 4 different obstacles
- Implemented scripts in **C++** to animate the obstacle course and detect when the player has won
- Designed and implemented a networked multiplayer system that supports up to 2 players

### Get Me Hired (2020)

- Hackathon project aimed to better prepare students trying to acquire internships by allowing interns with previous experience to share their experiences
- Worked as a team lead to refine the scope of the project and coordinate the implementation
- Designed and developed frontend with **JavaScript** using the **React Native** framework

### Sneaker Bot (2020)

- Built a bot coded in **Python** to automate the purchase of limited-edition shoes
- Automated web scraping using **Chromedriver** from the **Selenium** package
- Reduced checkout time by more than 10 seconds compared to manual checkout

## WORK EXPERIENCE

**Semone's Family YMCA**, Dallas, TX

July 2017 - August 2019

*Lifeguard*

- Ensured the safety of over 100 patrons a day in the pool and on the pool deck
- Maintained the cleanliness of the pool deck as well as the chlorine and pH levels of the water