

**James McLain Johnson**  
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Portfolio: [mclainj.github.io](https://mclainj.github.io)

## **Education**

**Texas A&M University**, College Station, TX

May 2020

Bachelor of Science in Computer Science

Minors in Game Design & Development, and Cybersecurity

GPA: 3.64

## **Relevant Coursework:**

Computer Graphics,  
Shader Dev. with HLSL/Cg,  
C# 3D Unity Development,  
Computer & Network Security,

Linear Algebra,  
Game Development,  
Game Level Design,  
Distributed Systems

## **Technical Skills**

*Languages:* C/C++, C#, GLSL, HLSL/Cg, Python, Java, R  
*SDK/API:* Unity, OpenGL, Photon Networking, gRPC, NLTK

## **Experience**

**Programmer**, Capstone Course Team

August 2019-Present

*College Station, TX*

2020: Creating RTS/3<sup>rd</sup> Person Action hybrid game with AI opponent

- Implementing gameplay programming and custom shaders

2019: Developed Unity3D platformer/puzzle game with interdisciplinary team

- Focus on AI, render pipeline, shaders, and utilities

**Technical Lead**, iCode

May 2019-August 2019

*Allen, TX*

- Instructed students on varying areas of computer science, including game and virtual reality development with Unity
- Coordinated deployment of hardware and software to classes

**Research Member**, Natural Language Processing Group

August 2017-May 2019

*College Station, TX*

- Created sentiment/emotion analysis and question generation models
- Utilized machine learning tools and statistical methods

## **Activities**

**Unity Game Development**

January 2019-Present

- Progressing my Unity skills by working on a variety of game mechanics and architectures, and customizing the render pipeline

**Programmer**, Chillennium Game Jam

Fall 2016 and 2019

- Implemented design and gameplay mechanics
- Mentored participants on game programming and Unity

**Member**, TAMU ACM SIGGRAPH

September 2019-Present

- Attending lectures and workshops pertaining to computer graphics

## **Honors**

**National Academy of Engineering**, Grand Challenge Scholar

Fall 2017

**Boy Scouts of America**, Eagle Scout

Summer 2013