Cavaughn Browne

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https://github.com/LegendaryZReborn
http://cavaughnbrowne.com/Mwsu-2D-Gaming-Browne

Education

- Midwestern State University(MSU), Wichita Falls, Texas.
 - o B. S. Computer Science. **GPA**: 4.0 **Anticipated Graduation Date**: May 2018

Skills

Programming languages: OpenGL, C++, C#, Python, HTML, CSS, JavaScript, MySQL, PHP.

Projects

Interactive Computer Graphics

- Created simple model viewer (Using OpenGL with C++, GLUT, ANGEL library).
- Terrain rendering from a height map with water simulation around it.
- Implemented a flying camera for first person exploration.

Test Case Suite Application

- Developed **C#** Windows Form Application to test code.
- Parses C++ source code; suggests appropriate test cases & drivers to the user.
- Worked as team leader applying Software Engineering principles (Agile process model).

Inventory Application

 Developed a Windows C# application using a Multiple Document Interface(MDI) for keeping inventory for multiple businesses.

The Fast Fourier Transform (Cooley-Tukey Algorithm)

- Implemented Fast Fourier Transform radix-2 DIT case (C & Cuda).
- Compared & measured improvement in efficiency between C & Cuda implementation.
- Code compiled & executed on Texas Advanced Computing Center's Maverick with 132 NVIDIA Tesla K40 GPUs.

Personal Website

- Built website for holding personal projects, applications, & resume with HTML, CSS, JavaScript.
- Working on developing a blog with content management system (PHP & MYSQL).
- Planning to incorporate a forum.

Brick Breaker Game

- Developed 2D brick breaker game with different levels in Unity 3D using C# scripts.
- Published on the Google Play App Store.

Super Diamond Box Platformer Game

- Developed web page games using the Phaser HTML5 2D game framework & JavaScript
- Configured for play on mobile devices.

Research & Experience

- "Virtually Bolin" Team Research Project
 - Creating a virtual reality experience of Bolin Science Hall at MSU using the Oculus Rift.
 - Created models using Blender & wrote scripts in C# for use in Unity3D.

- Programming Team
 - Participated in the ACM-ICPC South-Central Region Programming Contest 2016
 - Solved over 50 problems on the UVA Online Judge website.
- Computer Science Lab Tutor
 - Tutor Computer Science students & help them with their projects.

Awards & Activities

- Midwestern State University's 2017 Hardin Scholar Finalist
- Midwestern State University's 2016 Clark Scholar Finalist
- Louie Huffman Computer Science Scholarship 2017
- Presidents Honor Roll: Fall 2014 2016, Spring 2015 2017
- Senator, Association of Computer Machinery at Midwestern State University.