Curriculum Vitae

Jack Thomas Bulson Games Programmer

Location: Newcastle-upon-Tyne Email: iacktbulson@gmail.com GitHub: github.com/BulsonJ Website: jackbulson.dev

Personal Profile

Video games and the industry surrounding them are something that I have always knew I wanted to be a part of. I am a reliable, friendly, and hard-working individual, and enthusiastic to learn new skills and solve problems in order to create great experiences for people to play and enjoy.

Education

2018-2022

MComp Computer Science (Game Engineering), Newcastle University

Graduating in 2022

Degree: 1st in Year 1, 2 & 3 of Study, on course for a 1st in Year 4

As part of the 4th year of my degree, have gained a large amount of experience in C++, creating a password encrypter/decrypter and programming the physics and gameplay behind a game inspired by Screwball Scramble. Have also utilised OpenGL and shaders to create a tropical island graphics scene. When finished, will also have worked as part of a team to create a game, and will have created another dissertation.

Modules completed:

- Advanced Programming for Games(100%)
- Advanced Graphics for Games(90%)
- Advanced Game Technologies(Mark awaiting)

2015-2018 Macmillan Academy Sixth Form

A Levels: Maths(A), Computing(B) and ICT(B)

2010-2015 Macmillan Academy

GCSE: 10 A-C Grades

Projects

2020-2021 3rd Year University Dissertation

Title: Near Infinite, Procedurally Generated Terrain

Language: C# (Unity)

Created a tool that procedurally generates terrain to compare using two different noise implementations (Perlin vs OpenSimplex). A custom shader is used to texture the terrain using height and steepness values from the terrain.

Link: jackbulson.dev/university/2021/08/30/procedural-terrain.html

3rd Year Game Development Module 2021

Title: Gladiator

Language: GDScript (Godot)

Created a top-down action game set in a gladiator arena. Programming/art

solely created by me, music and sound effects sourced externally.

Link: jackbulson.dev/university/2021/09/04/gladiator.html

For the past year, I have also been actively creating small, solo game projects which are also displayed on my website. More details about my university projects can found there too.

Past Employment

Jun 2016-Aug 2018 Stand Attendant at Showcase Cinemas

Key responsibilities included serving customers, ensuring the stand was a clean and sanitary environment, working as part of a team and dealing with problems and complaints. As I became a more experienced member of staff, the I was trusted with more responsibility, such as managing stock replenishment on the stand. This helped me to develop my organisational and leadership skills.

Skills and Achievements

Languages:

C++ / C# / GDScript & Java

Software Experience:

Godot / Unity / Visual Studio / Nvidia NSight

Gameplay Programming:

Implementation of 3D physics system

Implementation of AI using state machines and behaviour trees

Graphics Programming:

OpenGL Graphics Scene – Deferred Rendering / Real-time Shadows / Water Refraction & Reflection

Miscellaneous skills, experience, and achievements:

Version control, more specifically GitHub Creating Gantt charts, UML diagrams for various university modules 2015-2017 Silver Duke of Edinburgh Award