

Joshua Donaldson

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Graduate Software Developer

I am a highly motivated game development graduate with a strong passion for AI and software development. My studies have given me hands-on experience with C++, C#, Python, and Unity, as well as a deep understanding of software architecture, and debugging. Beyond my academic projects, I have worked on multiplayer VR experiences and AI-driven procedural dialogue systems, reinforcing my ability to create innovative solutions. I am eager to apply my technical expertise in game development and beyond, contributing to real-world software projects in a collaborative and dynamic environment.

Skills

- AI & Procedural Generation
- C#, C++ & Python
- Clean Code Practices
- Debugging
- Object-Oriented Programming
- OpenGL
- Unity
- Version Control (Git, Github)

Projects

AI Powered Procedural Dialogue System (C#, Unity)

Honors Project

- Built an AI-powered procedural dialogue system for RPGs utilising Open AI's API
- Conducted user testing and surveys to evaluate AI vs. human-written dialogue
- Designed a modular system that allows for developer customisation

Tactical RPG (C#, Unity)

Personal Project

- Developed a seamless transition system between exploration & combat
- Designed a modular Unit system for actions, movement, and AI
- Ensured clean, optimised code by separating unit logic into modular components

Perilous Playdate (C#, Unity)

University Project

- Developed an online multiplayer VR game inspired by Squid Game
- Implemented networking features for real-time player interaction
- Designed immersive VR mechanics to enhance player engagement
- Focused on optimisation for smooth performance in virtual environments

Education

1 BSc (Hons) Game Development (Software Development)

Glasgow Caledonian University, Glasgow

September 2021 – June 2025

2 Foundation Apprenticeship in Information Technology: Software Development

St. Aidan's Highschol, Wishaw

August 2020 – July 2021

3 Advanced Higher in Mathematics

St. Aidan's Highschool, Wishaw

August 2020 – August 2021

