# ­Summary

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| I am a driven Software Engineer with 5 years of video game programming experience including Graphics, Particle Systems, built from scratch 3D editors and Behavior Trees. I will develop and maintain any project with my team. |

# Computer skills

## Languages

* C++ (4 years)
* C#, Python

## Operating Systems

* Windows, Linux

## API

* OpenGL 3 / 4.3
* ImGui / ImGuiZmo
* Assimp, Bullet3
* GLFW, SDL
* Berkeley Sockets (Windows and Linux)

## Tools

* Doxygen
* Visual Studio, CMake
* Git (command line)
* Unity, Unreal Engine 4

## Soft Skills

* Working on a team
* Pair Programming
* Always mentoring and open to new ideas

# Education

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## Bachelor of Science in Computer Science in Real-Time Interactive Simulation – Redmond, WA 9/2016 – 4/2021

DigiPen Institute of Technology

* Basic Networking
* OpenGL 3D Rendering, Reflection, Refraction, Texture, and Deferred Shading.
* AI pathing and problem solving

# Experience

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| Engine Programmer | 1/2018– 4/2018 |

**Gun Garden** – 2D Action Bullet Hell

* Developed and maintained Customizable Particle System
* Created Menus and Tutorial level

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| 3D Editor Programmer | 9/2018– 3/2019 |

**Project Abyss** – 3D First Person Light Mixing Puzzle Platformer

* Researched and integrated tools for custom 3D video game editor
* Set up graphics using OpenGL
* Integrated Bullet3D Wireframe and
* Bounding Box debug drawing
* Added Translation, Rotation, and Scale Gizmos
* Ray Picking to move objects with mouse
* Integrated Nlohmann JSON for serialization
* Implemented scene viewing
* FPS Camera and Editor Mode Viewing
* Undo/Redo functionality (save state)

**AI Programmer**  9/2019 – 4/2020

**Reformed Studios**

* Implemented efficient, shared behavior tree system
* Created Behavior trees with said system

**Personal Project** 5/2020 – 8/2020

* Created full flight 3D Octree navigation