# Jinhyun Choi Software Engineer

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## **Skills**

• Language: C, C++, C#, GLSL, CSS, HTML

• Engines: Unity Engine, Unreal Engine

- **Tools:** Git, OpenGL, Direct X, GLFW, Visual Studio, Visual Code, Resharper, Rider, Android Studio, gcc/g++, RenderDoc, Nintendo SDK with Unity Engine, Native Nintendo Code(NX)
- Programming Paradigm: OOP, TTD, Functional Programming, Design Pattern

## **Professional Experiences**

#### **Outgame Client Programmer**

5minlab - Team of SMASH LEGENDS - Korea

Jan 2020 - Apr 2022

- Implemented network Outgame systems like HTTP, Websocket, MQTT and many other network codes and created Social, Party, Chat, Friendly match and many other network features.
- Partnered with UI/UX designer and made UI modules for helping UI/UX designers to use for making the best design for providing to users.
- Succeeded in attaching third-party SDKs for self-publishing and devised Login, Maintenance, IAP, Billing with Purchase, Push Alarm, News and many other platform-based systems.
- Regulated live service for a year Outgame client programmer alone and controlled server status, database, localization, build with deploying, coordinated market space like Playstore, AppStore, Steam and many other tasks.

#### **Teaching Assistant**

DigiPen Institute of Technology

Sept 2023 - Dec 2023

- Led 20+ students in Advanced Computer Graphics, covering modern GPU architecture and various rendering techniques including texturing, illumination, transparency, shading, mapping and shadows with OpenGL.
- Offered individual guidance to students struggling with understanding the course material and reviewed the technical aspects of projects.

## **Academic Projects**

## **Game Programmer & Tech Director**

Paparazzi - 3D Platformer Puzzle

Team of 5

Sept 2023 - Dec 2023

- Applied 3D Graphics object collision ideas for making object-cutting features with a plane and utilized it to cut objects by camera view frustum with Unity Engine.
- Developed a picture album system using data structure and algorithm knowledge and used it to generate new maps with saved album objects.
- Produced all of in-game UI system using Unity GUI system and mathematics knowledge.
- Navigated the git flow of the team overseeing all scripts and providing assistance as well as fixing bugs.

## **Al Game Programmer**

Jan 2023 - May 2023

Infe Station - First Person Shooting Horror

Team of 6

- Developed different types of AI enemies using Behavior trees, Navigation system, AI perception and AI Debugging with Unreal Engine.
- Adapted Computer Science knowledge for making patrol type of enemy and utilized Computer Graphics view frustum experience for creating SCP-173/Weeping Angles type enemy.

## **Graphics Programmer & Engine Architecture**

Sept 2018 - June 2019

CamPic - 2D Platformer Puzzle

Team of 4

- Headed design engine structure and implemented engine core systems and fulfilled Scene Manager, Object Manager and many other engine cores with GLFW, C++14.
- Programmed 2D Graphics system by using OpenGL with GLSL and applied camera, texture, animation, particle and other 2D graphics features to effectively show 2D Graphics.
- Formed game's core system with basic player movement, camera movement and other based game systems.

## Education

BS in Computer Science in Real-Time Interactive Simulation

Expected Graduation: Apr 2024

GPA: 3.92 /4.00

DigiPen Institute of Technology