

EDUCATION

UNIVERSITY OF SKÖVDE

Sep 2020 – Jun 2022

Master of Science in Game Development (Specializing in Serious Games)

CHINA UNIVERSITY OF POLITICAL SCIENCE AND LAW

Sep 2016 – Jun 2020

Bachelor of Arts in Chinese Language and Literature

PROFESSIONAL EXPERIENCE

Apr 2021 – Jun 2021

BLACKDROP INTERACTIVE

Game Programmer Intern

- Implemented new game features according to players' feedback.
- Fixed miscellaneous game bugs in different game systems.
- Built new guns and new game maps with other developers.

Feb 2019 – Jun 2019

MCAT INSTITUTE

Game Content Editor Intern

- Produced game-related articles for the company's game media.
- Produced subtitles and translations for the company's game videos and videos on Youtube.
- Carried out work related to game workshop organized by the company.

PROJECTS

AUTO-BATTLER PROJECT

July 2022 – Present

A personal project which contains most of the features of the auto-battler game genre in single player game mode with Unity.

- Built a dynamic pathfinding system with A-star algorithm, and integrated finite state machine with champions runtime behaviors, which together implemented the champion's AI system.
- Built champion's attributes system, buff system, and ability system using Scriptable Objects and C# object-oriented features. These together with the game's event system provide a solid infrastructure that allows for highly scalable game development and greatly reduces code coupling.

SEABIRD PROJECT

Sep 2020 – Dec 2020

A collaborated work with the University of Skövde, WWF, and SLU with the aim of increasing interest towards the seabirds living in the Baltic Sea made with Unity.

- Implemented most of game features including satisfying third person character controller using Cinemachine, game progression system, save system, quick time events (QTE) system etc.
- Worked with artists to polish the animation system, AI system, and Unity Shadergraph to create shader objects for the game environment and interaction system to improve the player experience.

ONLINE MULTIPLAYER GAME PROJECT

Nov 2021 – Dec 2021

An online multiplayer demo using Unreal that could be played by multiple players through Steam network.

- Implemented the multiplayer online marble mini game system using Unreal and Blueprint within the Unreal-Steam multiplayer network framework.
- Researched solutions for Steam online games through various sources and finally configured a viable solution, and migrated project code from Unity to Unreal's Blueprints.

CAT CLINIC

Mar 2021 – May 2021

A serious game prototype designed to help procrastinators reduce academic procrastination.

- Implemented all game features including a solid game save system with different save slots by using JSON for serializing and deserializing game object.
- Implemented game time system and economic system for idle game features by calculating real time.

BUDDY

Feb 2022 – May 2022

My thesis work for my master's degree at the University of Skövde, designed to investigate the impact of unguided instruction in a puzzle game on the player's perception of the game.

- Designed and built the whole game with some art assets support.
- Implemented undo system with different game objects and commands from players by using new input system in Unity and command pattern.

SKILLS

