

Daniel He

Gameplay Programmer

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SUMMARY

Gameplay programmer graduating with a Master of Interactive Technology with a specialization in gameplay at SMU Guildhall. Skilled in **Unreal Engine 5, Unity, Game Maker** and **C++**, with strong experience in procedural generation, enemy AI, and gameplay systems. Contributed to multiple shipped and team-based projects including a roguelike platformer and arcade racer. Particularly interested in indie teams focused on systemic gameplay and experimental design.

EDUCATION

SMU Guildhall

Master of Interactive Technology, Specialization in Gameplay Programming

Dallas, TX

Expected May 2026

University of Utah

Bachelor of Computer Science

SLC, UT

May 2024

SHIPPED TITLES

Ling and Corrupted Hollow (3D Puzzle Platformer)

SMU Guildhall GameLab

Save System and UI Programmer

May 2025-Dec 2025

- Implemented a modular save/load system in UE5 (C++&Blueprint) supporting checkpoints, shops, and progression tracking.
- Developed UI systems integrated with gameplay state, improving player feedback and usability.
- Collaborated with designers and UI team on progression flow and Steam achievements integration.
- Authored technical documents to support cross-team implementation.

HardDriverZ (Arcade Racer)

SMU Guildhall GameLab

Gameplay Programmer (Pickups System)

Jan 2025-May 2025

- Designed and implemented a pickup system framework in UE5 Blueprint, supporting multiple item types and effects.
- Built status effect system enabling reusable gameplay modifiers across pickups.
- Developed gameplay logic for all pickups except Tractor Beam, improving gameplay variety.
- Partnered with level designers to refine environmental hazards and obstacle interactions.
- Conducted systematic bug testing and iteration cycles to improve stability.

Pogo Rogue (Roguelike Action Platformer)

Bounce Back Games

Enemy Designer and Programmer

Aug 2023- May 2024

- Architected base enemy class system in Game Maker, enabling scalable enemy behavior design.
- Design and implemented core enemy types and boss attack patterns.
- Co-developed overall enemy design framework and combat experience.
- Best Student Game Finalist and Best Hobby Game Finalist 2024 Summer Season.
- Steam release. 200+ players reviews (very positive).

PROJECTS

Rogue Exile

Procedural Dungeon Generator (Old school Roguelike)

SMU Guildhall C++ Engine

- Developed procedural dungeon generator in C++ using binary space partition, cellular automata, and Perlin routes.
- Built systems for balanced object distribution and natural/structural level layouts.
- Designed a customizable stat progression system and procedurally generated equipment like Diablo
- Enabled configurable level length and visual style.

Clash of Will

SMU Guildhall C++ Engine

Semi Realtime Roguelike Deck Builder

- Designed and implemented a semi real time combat system inspired by Chrono Trigger
- Built flexible card system architecture supporting diverse gameplay effects.
- Developed status effect framework for triggered and passive mechanics.
- Focused on system extensibility for roguelike deck-building gameplay.

SKILLS

Languages: C ++, C#, Java and Python

Engines & Tools: UE5, Unity, Game Maker, RPG Maker

Core Areas: Gameplay Systems, Procedural Generation, Character AI, Emergent Gameplay, Roguelike design.

Professional: English(Fluent). Chinese(Native). Japanese(Reading and Speaking).