Dan Singer Gameplay Engineer

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WORK EXPERIENCE

Unbroken Studios

Software Engineer

Unannounced Project - Unreal Engine 5; C++; Blueprints

- Spearheaded gameplay programming and was the go-to engineer for integrating the Gameplay Ability System into our project.
- Setup game mode, spawning rules, and an interaction system in a networked context.
- Created an inventory system in C++ using data assets, Enhanced Input, the Gameplay Ability System, and MVVM.

Harry Potter: Quidditch Champions (Released Sep. 3, 2024) - Unreal Engine 4; C++; Blueprints

- Implemented a multithreaded Model View ViewModel system that allowed the team to have a clearer separation of concerns between UI Designers and UI Engineers. This was used in many areas in the game such as the post-match sequence, scoreboard, and front-end.
- Used render textures to create complex layouts with 3D characters embedded inside of menus and setup materials to blend between different characters.
- Added systems to detect input from PlayStation and Switch controllers on PC using RawInput or SteamInput, depending on what was available. This was a critical area to get this game verified on Steam Deck.

Suicide Squad: Kill the Justice League (Released Jan. 30, 2024) - Unreal Engine 4; C++; Blueprints

- Created a data-driven system in C++ to manage which game features were available for different game modes.
- Developed new combat abilities and HUD elements for a secondary game mode by using features from the primary game mode in C++ and Blueprints.
- Created and extended UI materials using Signed Distance Fields.

Deviation Games

Software Engineer | May 2021 - Mar. 2022

- Created and maintained a designer-driven, node-based AI Event system with C++ by integrating and extending a third party plugin.
- Created new shaping behaviors for our internally-developed fluid simulation.
- Profiled game performance using Unreal Insights to find bottlenecks in gameplay code and develop solutions to make said code run faster.

Associate Software Engineer | June 2020 - Feb. 2021

- Developed and iterated on a core AI decision-making system.
- Developed and iterated on an AI character using the Environment Query System and the Gameplay Ability System, taking feedback from designers and animators into account.

Oxide Games

Gameplay Engineering Intern

Ara: History Untold (Released Sep. 24, 2024) - Custom C++ Engine

Programmed new gameplay systems and contributed to existing ones with direction from game designers.

EDUCATION	SKILLS
Rochester Institute of Technology	 Programming: C/C++; C#; Rust; Python
Sep. 2016 - May 2020	• Game Development: Unreal Engine 4/5; Godot; Unity;
Bachelor of Science; Game Design & Development	Gameplay Ability System; Shaders; Behaviour Trees
• GPA: 3.92	 Web Development: HTML; CSS; JavaScript; TypeScript;
 Minor: Music & Technology 	React
	 Miscellaneous: Git; Perforce; Blender; Jira

Mar. 2022 – Feb. 2025 *El Segundo, CA*

June 2020 – Mar. 2022 Santa Monica, CA

May 2019 – Aug. 2019

Timonium, MD