**Summary**

Game Development graduate with expertise in programming, software engineering, and QA. Skilled in crafting immersive mechanics and interactive worlds through hands-on projects. Passionate about innovation and collaboration, with a commitment to staying ahead of industry trends. Eager to bring fresh ideas and technical skills to cutting-edge game development.

**Skills & Software**

* **Languages:** C++, C#.
* **Game Engines:** Unreal Engine 5, Unity and Unreal Engine 5 Blueprints.
* **Development Tools:** Visual Studio 2022, GitHub.
* **Game Development:** AI programming, game architecture, UI design, procedural generation.
* **Soft Skills:** Team collaboration, problem-solving, Verbal and written Communication.

**Projects & Development Experience**

**Enemy AI Development: Unreal Engine 5, C#, C++**

* Developed two unique enemy types and boss characters featuring advanced AI behaviors, including pathfinding, state-driven decision-making, and adaptive attack patterns.
* Addressed challenges such as balancing AI difficulty and ensuring smooth transitions between behavior states, resulting in engaging and unpredictable enemy encounters.

**Random Dungeon Generator: Unreal Engine 5, Blueprints**

* Designed and implemented a procedural dungeon generator that creates randomized layouts and adaptive challenges tailored to player progression.
* Overcame issues related to level connectivity, replayability, and performance optimization, ultimately delivering dynamic environments that enhance replay value.

**In-Game UI Components: Unreal Engine 5**

* Created intuitive and visually appealing user interface elements, including health bars, inventory menus, and contextual prompts, to improve player interaction and feedback.
* Resolved usability and accessibility concerns, leading to a more seamless and engaging user experience.

**Pickup/Interact System: Unreal Engine 5, C++**

* Engineered a robust item interaction system utilizing Traces/RayCasts for detecting and picking up objects, as well as interacting with various in-game elements.
* Tackled challenges involving collision detection and interaction logic, resulting in a flexible system that supports diverse gameplay mechanics.

**Experience**

**Quality Assurance – Full Sail University UX Lab -** January 2023 - Present

* Conducted Quality Assurance testing for indie and major studio game releases, identifying bugs and design inconsistencies.
* Provided feedback on gameplay, UI, and player experience to refine mechanics and usability.
* Collaborated with developers to enhance game quality based on user behavior and testing insights.

**Leadership**

**Eagle Scout** – May 2022

Demonstrated leadership, time management, and problem-solving skills

**Education**

**Full Sail University**, Winter Park, FL – February 7, 2025  
Bachelor of Science in Game Development