

Ada Jiang

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[Portfolio](#) | [GitHub](#) | [LinkedIn](#)

EDUCATION

Northeastern University <i>Master of Science, Game Science and Design</i> Related Courses: Data-Driven Player Modeling, Spatial and Temporal Design, Mixed Research Methods for Games	Boston, MA <i>Sep 2021 – Dec 2023</i>
Oregon State University <i>Bachelor of Science in Computer Science</i> Related Courses: Computer Graphics, Analysis of Algorithms, Artificial Intelligence	Corvallis, OR <i>Jan 2017 – May 2021</i>

EXPERIENCE

Cyber Sentinel <i>Designer & Programmer</i>	Jun 2024
<ul style="list-style-type: none">Developed a third-person shooter game in Unreal Engine 5 with AI-driven combat and interactive environmentsImplemented weapon systems, shooting mechanics, and win/loss conditions using C++ and BlueprintsDesigned enemy AI with Behavior Trees and advanced combat logic for dynamic encountersApplied Physics-Based Animation for realistic ragdoll effects and corpse physics simulation	
Game Dev Game Jam: The Ocean-Marinefall <i>Designer & Programmer</i>	May 2022
<ul style="list-style-type: none">Developed a 2D Zen art game in a team of 7 using UnityParticipate in the design of game mechanics and coordinate with other team members to assign tasks using TrelloResponsible for programming, wrote scripts for camera and character movement, and created ending animation	

PROJECTS

School Showcase: Escave <i>Designer & Programmer & Modeler</i>	
<ul style="list-style-type: none">Designed and developed an original 3D game in a team of 5 using Unity 3D engineUsed PHYSICS.Raycast to pick up the implemented game and create animation for mining actionWrote a backpack system and material synthesis system with C# scriptsMade the game's ends the animation and used the coordinate point to achieve the cable car movement	
Unreal Engine 5 Dynamic Weather System <i>Designer & Programmer</i>	
<ul style="list-style-type: none">Developed a real-time weather system integrating day-night cycles, dynamic lighting, and procedural snow accumulationImplemented Blueprint-driven weather transitions, enabling seamless switching between sunny, cloudy, and snowy conditionsCreated Niagara-based snow particles and wind effects, with real-time footprints using Anim Notify and DecalsDesigned adaptive cloud formations using volumetric cloud shading and altitude-based procedural adjustmentsOptimized performance and automation with Material Parameter Collections, Blueprints, and post-processing techniques	
Master Degree Capstone: Weapon Master <i>VR Developer & Programmer</i>	
<ul style="list-style-type: none">Developed a physics-driven VR melee combat system in Unity as part of Northeastern University's Capstone ProjectImplemented Inverse Kinematics (IK), real-time collision detection, and procedural animation blending for realistic weapon handling and enemy hit reactionsDesigned an AI combat system using Behavior Trees and State Machines, enabling adaptive enemy behaviors and strategic decision-makingOptimized motion tracking, input mapping, and haptic feedback, ensuring precise controller-based interactions for an immersive VR experienceConducted user experience evaluation with mPXi modeling, analyzing player immersion and refining combat mechanics based on behavioral data	

TECHNICAL SKILLS

Languages: C#, C/C++, SQL, Java, Python, JavaScript, HTML/CSS, R

Utility Tools: Vuforia, ARToolkit, OpenGL, AR Foundation

Developer Tools: Unity, Unreal 5, Blender, Visual Studio

Video Editing Tools: Adobe Photoshop, Adobe After Effects, Adobe Premiere Pro