

# Daniel Yu

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## EDUCATION

**University of Southern California**

Los Angeles, CA

B.S. Computer Science (Games); Minor: Cinematic Arts

Aug. 2021 - Present

GPA: 3.95

**Expected Graduation Date:** May 2025

**Relevant Coursework:** Calculus II, Linear Algebra and Differential Equations, Intermediate Game Design and Production, Video Game Programming, Advanced Gameplay Programming, Introduction to Artificial Intelligence, Computer Graphics

## WORK EXPERIENCE

**Student Worker** - *USC East Asian Studies Center*

Aug 2023 - Present

- Managed Instagram and Facebook accounts by designing and producing weekly graphics
- Updated old website pages to be more visually cohesive and up-to-date
- Assembled and maintained information about upcoming events and job opportunities
- Assisted in daily operations by taking calls, preparing events, and directing guests

**Video Technician, Technical Assistant** - *Trojan Event Services*

Oct. 2021 - Aug. 2023

- Set up and operated video cameras and video switchers during live events
- Assisted staff in the transportation of equipment

**Orientation Advisor** - *USC Office of Orientation Programs*

Mar. 2022 - Jan. 2023

- Gave presentations with a partner to groups of 10-20 students twice every week
- Held one-on-one talks with incoming students over Zoom and directed guests 3 times every week
- Communicated with co-workers and provided customer service to students and parents daily

## PROJECTS

**Programmer, Designer** - [Free Will](#)

May 2023 - Present

- Implemented a save and load system that saves data to a user-modifiable JSON file in Unity C#
- Implemented data persistence between levels and a level manager to control scene transitions
- Created functionality for reading, writing, and correcting a text file to create an in-game invisible maze
- Implemented a mouse cursor-repelling force within a radius around an in-game enemy
- Programmed a sequence of external dialog boxes opening and respawning outside of the game window

**Sound Designer** - [Sorelle](#)

Apr. 2023 - Present

- Designed the sonic identity and 8 sound effect assets for a main character using Ableton Live
- Recorded foley, designed UI sounds, and produced minor jingles and flourishes
- Adjusted and finetuned various RTPC parameters and effects in Wwise

**Programmer, Sound Designer** - [Unnamed Surgeon Game](#)

Jan. 2024

- Implemented functionality for picking up and placing down interactable items in Unity C#
- Implemented a gradually dimming light that can be reactivated through interaction

- Recorded and implemented voiceover for all sound effects

**Sound Lead** - [Boo's There?](#)

June 2023 - Dec 2023

- Implemented a layered music system in Wwise that seamlessly adds layers to the BGM track per level
- Implemented a set of clock ticking sounds that vary in intensity depending on the in-game timer
- Hosted group and individual Wwise and Ableton workshops for new team members
- Managed and maintained communication with a team of 5 sound designers weekly
- Integrated Wwise into the Unity project
- Implemented a dialogue sound blip system that plays unique sounds for each letter typed for each NPC, in conjunction with Yarn Spinner
- Wrote Wwise documentation detailing basic Wwise functionality and previously implemented features
- Collaborated with the Design team to create an asset list and establish the game's experience goals
- Communicated with the Programming team to assist in fixing Wwise-related bugs

**Programmer** - [Portal Recreation](#)

Mar. 2023 - Apr. 2023

- Programmed all core functionality in C++ with the SDL Library
- Implemented an AI state machine to control sentry turret searching, priming, firing, and death
- Utilized view matrices and quaternions to calculate and create portal views
- Implemented player movement with forces, FPS controls, and 3D box collision

**Backend Developer** - [UScheduler](#)

Feb. 2023 - Apr. 2023

- Created 4 Java Servlets on the backend to allow for access to the MySQL database
- Created input validation for registering, logging in, and creating events
- Implemented functionality to a JDBC connector class to retrieve all events on a specified date
- Created weekly documentation under the Waterfall design methodology

**Lead Programmer, Designer, 3D Artist** - [Hear Your Fear](#)

Jan. 2023 - Apr. 2023

- Collaborated with one other programmer to establish and fulfill the game's core gameplay loop in Unity C#
- Created all 3D models and environments in Autodesk Maya
- Implemented a pathing system in C# that allows for enemies to follow fixed paths
- Implemented player movement
- Worked under the Agile design methodology
- Implemented a layered audio track system using Unity's built-in sound engine
- Implemented a level manager, game manager, and audio manager
- Created and implemented all HUD assets, including a healthbar and hint text
- Facilitated weekly playtests and analyzed player feedback to iterate on the game's design
- Implemented all sound effects and music, and finetuned spatial audio distance attenuation
- Debugged and finetuned the player vision's raycasting

**Composer, Sound Designer, Audio Programmer** - [Bone Boy](#)

Jan. 2023 - Apr. 2023

- Composed two music tracks in Ableton Live
- Created and recorded various sound effects, including most enemy and NPC sounds.
- Utilized Audacity and Ableton Live for sound mixing and layering
- Implemented sound effects and music into Unity using Audiokinetic Wwise

**Composer, Programmer, UI - [Cellulose](#)**

Nov. 2022

- Composed and implemented the entire soundtrack, consisting of 4 tracks total, with additional mixing in Audacity
- Programmed the Lives and Score systems, as well as a Game Over state in Unity C#
- Implemented and programmed all UI, including the HUD, main menu, and pause menu
- Implemented a toggle that allows players to switch between 8-bit and non-8-bit soundtracks

**Sound Designer, Audio Programmer - [Mom, Please Respect My Privacy](#)**

Oct. 2022

- Created sound effects for the player walk cycle
- Created and implemented sound effects for placing and removing various item types
- Ideated that the mother would search while the player hides items simultaneously
- Ideated the light switch mechanic, enabling players to hinder the mother temporarily

**Audio Designer - [Ho Ho Who Did It?](#)**

Nov. 2021

- Composed the entire soundtrack, consisting of 7 tracks
- Reduced the workload of artists and programmers by suggesting the use of non-square puzzle shapes
- Created sound effects for pushing and pulling puzzle pieces
- Created sound effects for the player walk cycle

## EXTRACURRICULARS

**Sound Lead, Sound Team Member - *Open Alpha USC***

Jan. 2023 - Present

- Composed music tracks and sound effects in Ableton Live and implemented them into Unity projects through Wwise
- Collaborated with the design team to create an audio asset list for a video game every semester
- Developed Wwise, music theory, and sound design curriculum for new members

## SKILLS

**Computer Programming:** C++, C#, Java, Python, Web

**2D Graphics:** Adobe Illustrator

**Game Development:** Unity, Unreal Engine 5

**3D Graphics:** Autodesk Maya

**Sound:** Audiokinetic Wwise, Ableton Live

**Video Editing:** Adobe Premiere Pro, Adobe After Effects

## HONORS AND AWARDS

**Dean's List - USC Viterbi School of Engineering**

Jan. 2023, June 2023, Jan. 2024

**Dean's List - USC Annenberg School for Communication and Journalism**

Jan. 2022