

Daniel Yu

Website - dyu1112.github.io

Email - danielyu742@outlook.com

Cell - 530-813-8200

Linkedin - linkedin.com/in/daniel-yu-aa4b8420b

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
- 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

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
- 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

- 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
- Created 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 that finished puzzles did not need to be square
- 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