Zhehao Xu

1236 W 37th Pl, Los Angeles, CA, United States | 213-422-7686 | davidx@usc.edu | lolxu.github.io | LinkedIn profile | Itch.io portfolio

University of Southern California, Viterbi School of Engineering

Master of Science, Computer Science

University of Southern California, Viterbi School of Engineering

Bachelor of Science, Computer Science (Games), Relevant Course Work (Link)

Honors: Dean's list (2021 - present)

Los Angeles, CA

August 2024-May 2025 Los Angeles, CA

August 2020-May 2024

GPA: 3.89

Technical Skills: C++ - Proficient (4 years); C# - Skillful (2 years); Unity Engine - Skillful (2 years); HTML/CSS - Skillful (4 years);

Perforce / GitHub - Skillful (2 years); Python - Advanced; UEFN - Advanced; Java - Advanced; MySQL - Intermediate; JSP - Intermediate;

Unreal Engine - Intermediate; UEFN - Intermediate; Autodesk Maya (3D Animation and Modeling) - Intermediate;

Spring Boot - Basic; JavaScript - Basic;

EXPERIENCE

USC AGP Program Los Angeles, CA May 2023-Present Gameplay Engineer

- Work as gameplay engineer for the Advanced Games Project program on the Oasis Blitz team.
- Implement gameplay mechanics for a platformer game that uses drilling as the main mechanic.
- Utilize different libraries such as FMOD and DOTween along with Unity Engine and C#.

USC Viterbi School of Engineering

Los Angeles, CA

CSCI Course Producer

August 2022-Present

- Work as course producer for CSCI104: Data Structures and Object-Oriented Design and CSCI103: Introduction to Programming.
- Become students' go-to person for explanation of complex algorithmic concepts and trusted by Professor Goodney to grade exams.

Sony Summer Associate - Sony Immersive Music Studios

Culver City, CA June 2023-August 2023

- Used UEFN and Unreal Engine to quickly create working prototypes that combine music with gaming.
- Built a working rhythm-based third-person shooter with concept art and music from a Sony Music Artist inside of UEFN.
- Built a system of audio synchronization with gameplay using the Sequencer Tool inside of UEFN.

ACADEMIC PROJECTS

Fall 2022 **Multi-agent Pathfinding**

- Addressed the difficult concept of pathfinding and built a multi-agent pathfinding C++ solution with A* pathfinding.
- Experimented with time-space A* and prioritized planning using constraints satisfaction, uploaded to GitHub.

Perceptron Learning Fall 2022

Implemented a perceptron learning model for classifying IMDB movie reviews using C++, uploaded to GitHub.

Hack SC - Lipstick Web Application

Summer 2021

- Innovated in makeup industry by deploying an application for users to try out different lipstick colors online.
- Achieved functionality using facial recognition libraries in Python along with PHP, HTML/CSS, uploaded to GitHub.

GAME PROJECTS

Game Prototypes

Spring 2023

- Constructed various game prototypes, each with a unique theme using Unity game engine.
- Created each game idea through rapid iteration and prototyping within a short time of two weeks.
- Practiced C# and game design skills under different constraints. Prototypes are uploaded to Itch.io.

Tencent Games Open Course Unreal Engine Projects

Summer 2022

- Constructed various demos that each demonstrated a core skill related to Unreal Engine using UE 4.27.
- Achieved a certificate from Tencent Games by completing the course.
- Practiced C++ and Blueprint programming, learned about animation blending, multiplayer, and graphics, uploaded to GitHub.

An Average Day

Spring 2022

- Worked in a team of two to create a 2D puzzle game with Unity published on Itch.io.
- Went through the process of pre-production, production, and post-production working in pairs.
- Designed levels and coded gameplay with Unity.

LANGUAGES AND INTERESTS

- Languages: English Fluent; Chinese (Mandarin) Native.
- Interests: Game Development; Drumming (Rock or Jazz); Music Production; Gaming; Skiing.