SALEM RICHIE GAMEPLAY PROGRAMMER

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SKILLS

Development

- · Algorithm Analysis/Design
- Data Structures
- Game Engine Architecture

Languages

- Advanced C/C++
- C#
- Python

Tools

- Microsoft Visual Studio
- Unity Engine
- Git Source Control

Design

- Levels
- Narrative
- Systems

ACADEMIC PROJECTS

Al Programmer | Technical Director

Aug 2023 - Present

Cats & Critters: A Dungeon Claw-er — Multiplayer Party Adventure Game (Unity Engine)

- · Compile weekly project builds and conduct technical production meetings to maintain project momentum
- · Authored a utility-based AI system by implementing response curves to support flexible multiplayer scenarios
- Implemented AI navigation throughout procedurally-generated levels using dynamic navigation meshes

Systems Programmer | Technical Lead

Oct 2022 - Apr 2023

Inline: Out of Time — Time-Attack Action Platformer Game (Custom Engine)

- · Cooperated with other leaders to foster collaboration and synergy in an interdisciplinary team of twelve students
- Created and standardized the level content pipeline to enable our design and art teams to iterate efficiently
- Developed a physics system alongside designer goals for player movement to best allow parkour-style action

Physics Programmer | Level Designer

Jan 2022 - Apr 2022

Nowhere to Grow — Physics-Based Puzzle Platformer Game (Custom Engine)

- Implemented an object management system using custom data structures to manage memory resources
- Simulated physical properties such as mass and restitution to calculate impulse forces and resolve collision
- Designed game mechanics and puzzles to showcase physics simulation through player interaction

ACADEMIC ACHIEVEMENTS AND AWARDS

DigiPen Institutional Full-Tuition Grant

8 Bits to Infinity Text-Only Game Jam Community Choice Award (of 28 Entries)

SoHacks 5 Hackathon "Best Intermediate Hack" Award (of 85 Entries)

Aug 2018

EDUCATION

Bachelor of Science in Computer Science and Game Design

DigiPen Institute of Technology — Redmond, WA

• GPA: 4.0

Associate of Arts in Liberal Arts

May 2020

Expected: Apr 2025

Northeast Lakeview College — Universal City, TX

• GPA: 4.0

PROFESSIONAL EXPERIENCE

Resident Assistant

Apr 2023 - Present

DigiPen Housing, L.L.C.

- Plan and execute community engagement programs that provide opportunities to enhance academics
- Support residents through challenges such as culture shock, homesickness, depression, and burnout
- · Encourage diversity, inclusion, and accessibility in our community by educating residents on inclusive practices

Teaching Assistant

Sep 2022 - Jul 2023

DigiPen Institute of Technology

- Provided technical assistance to students and teams in areas such as C/C++ and game engine architecture
- Reinforced student learning objectives by addressing specific challenges and complex topics outside of class
- Encouraged team-oriented habits in student teams by demonstrating communication and production techniques