DAVIN WAMBOGO

Game Designer & Gameplay Programmer

PROJECTS

Enja's Journey

Game Designer & Programmer, Turn Based RPG

= 10/2023 - 12/2023

- Game Designer & Programmer: Developed initial design documents and implemented the RPG's core mechanics, including the battle system.
- Level & UI Designer: Designed and implemented the world layout and created and animated UI elements such as menus, HUD, and battle UI.
- Other: Created textures, and developed shaders for models and special effects.

Taxes and Tenacity

Game Designer & Programmer, Top Down Action Rogue Lite 🛗 10/2023 - 10/2023

- **Game Designer:** Developed the game's economy, enabling strategic investment in permanent upgrades or temporary boosts, enhancing gameplay depth.
- Gameplay Programmer: Programmed core game mechanics, including player combat and movement, camera polish like looking ahead of movement direction, character stats, and enemy AI.
- **Animator:** Made animations for the game including player and enemy attacks.

Got Steam, Punk?

Game & Level Designer, Task Manager Platformer

= 09/2021 - 11/2021

- **Game Designer:** Designed the player's moveset with a mix of momentum based and non-momentum based movement to give them control at high speeds, but also some chaos to match the tone of the game.
- **Level Designer:** Designed and constructed the layout of the steamship, including task sequencing, with a focus on allowing the player the visualize the paths that they can radially swing.

RELEVANT COURSEWORK

CMSC425 Games Programming

= 08/2023 - 12/2023

- Learned about the architecture of games, mesh properties, collision, Al Agents, networking, and physics.
- Made use of Unity features such as scriptable objects and Unity Events, as well as C# interfaces to reduce coupling.
- Created a turn based RPG with 5 environments, 13 enemies, 6 classes each with 5 spell, 54 pieces of gear.

CMSC427 Computer Graphics

= 01/2024 - 05/2024

- Implemented foundational algorithms for 3D rendering such as mesh generation, texture mapping, camera projection, physically based rendering, and ray tracing among other modern effects.
- Made a three color cel shader in Unity using hlsl, with extra effects such as rim lighting and granular control of shadow colors.

MATH431 Geometry for Computer Applications

= 08/2023 - 12/2023

 Mastered topics in projective geometry and Linear Algebra, emphasizing algorithms for computer graphics, Including affine transformations, projective space Stereographic projection Quaternions.

ARTT479D Immersive Virtual Environments

m 01/2024 - 05/2024

- Gained expertise in immersive art creation with Maya and Unity, focusing on 3D modeling, interactive virtual spaces, and digital storytelling, honing skills in lighting and user interaction programming.
- Modeled, Textured and lit four scenes, both in Maya and for Game Engines and created an animation including a humanoid model with which I also made.

OTHER EXPERIENCES

Game Development Club

苗 09/2021- present

- Led teams in multiple game jams to the creation of three games.
- Conducted workshops on Post Processing for club members.
- Presented three game development projects at university events.

ServiceNow Software Engineer

= 01/2022 - 08/2022

- Implemented ServiceNow solutions for IT service systems and forms.
- Owned code from design to delivery, ensuring alignment with user requirements.

UMCP Esports Club Organizer

苗 09/2021 - present

- Organized in-house gaming tournaments, fostering community engagement and teamwork.
- Designed and implemented strategies to increase club membership and engagement among students.

EDUCATION

P: 301-532-7019

University of Maryland College Park

Bachelors of Science: Immersive Media Design Bachelors of Science: Computer Science

<u>ြ:https://terpconnect.umd.edu/~davinwam/DWPortfolio/</u>

@: davinwambogo@gmail.com

SKILLS

Program	ming			
C#	C++	Blueprint	С	HLSL
Java	HTML	CSS	Javascript	Webgl
Software Unreal Eng	gine Un	nity Maya	Blend	er
Substance	Designer	Substance	e Painter	Git
Photoshop	Illustra	ntor		

Soft Skills

Creative Thinking / Problem Solving /
Documentation / Word and Excel / Adaptability /
File Management / Flexibility / initiative /
Attention to Detail

AWARDS & HONORS

Member of UMD Dean's List, 2023

University of Maryland College Park

Member of UMD Honors College, 2020

University of Maryland College Park

AP Scholar with Honor, 2020
CollegeBoard

IBCP Certificate Receiver, 2020

The International Baccalaureate

President's Education Awards Program,

U.S. Department of Education

FAVORITE GAMES

Monster Hunter Horizon Zero Dawn Xenoblade Chronicles League of Legends

HOBBIES

Basketball
Bass guitar
Digital art
Manga
Piano