

## About Me

Creating the novel stories new technology enables

## Education

Carnegie Mellon University, Entertainment Technology Center (ETC) - Masters of Entertainment Technology, May 2024

University of Illinois at Urbana-Champaign, College of Engineering (UIUC) - B.S. Computer Science, May 2022

## Skills

### Engines

Unity, Unreal

### Platforms

PC, Quest 3 (VR and AR), Vive Trackers, WebGL, Eye Tracking, Android, Custom Controllers, Directional Audio

### Languages

C#, C++, C, Python, Java, JavaScript, HTML, CSS

### Other Skills

Dialogue and Prose Writing

Generative AI Dialogue Training, Prompt Engineering

Custom Shaders

FMod, Sound Effects, Mixing

Technical Writing

American Sign Language

## Hobbies

TTRPG Design

Horror Story Writing

Improv

Magic: The Gathering

## Experience

### Narrative Designer/Prompt Engineer, *Astrobeam*, February-April 2025

*Stellar Café*, released VR game about multiplayer interaction with generative AI powered NPCs

- Assisted in the development of a Quest 3 VR game in Unity
- Integrated and optimized generative AI tools for the creation of dialogue
- Ran playtests multiple times a week to iterate on AI and game functionality
- Wrote background info and example dialogue for RAG implementation in order to flesh out the world and characters
- Employed prompt engineering to reduce hallucination, improve output, and allow for integration with other gameplay systems

### Technical/Design Contractor, *BigEMotion*, December 2025 - Ongoing

A studio focused on creating interactive software and installation experiences for clients

- Designed and produced interactive installations and ensured reliability and high uptime
- Utilized Unreal to create an interactive museum exhibit for a special effects studio

### Technical/Game Designer, *Hysteria in Howlsbend*, January-May 2023

A witch trial interrogation game utilizing freeform user input and real-time AI generated text

- Developed a game where the player plays an interrogator during a witch trial, having freeform conversations with NPCs that have real-time ChatGPT generated dialogue
- Created systems for controlling the changing conversation topics and emotions of the conversational AIs to increase their believability and reactivity
- Integrated machine learning technologies with Unity to react to freeform user input
- Created gameplay systems for player interrogation and the tutorials to explain them
- Worked with a co-writer to develop over 1000 lines of dialogue
- Over 30000 downloads on the Epic Game Store

### Technical/Game Designer, *Recollection*, January-May 2024

A VR experience that puts you in the shoes of an artist dealing with trauma

- Developed a Quest 3 VR game in Unity exploring an artist's journey to confront how a car crash trauma that resulted in the death of their mother affected them
- Created a custom watercolor and stencil shading system to visually represent the ways we perceive memory
- Utilized environmental storytelling to convey this highly personal narrative
- Designed novel gameplay mechanics around painting the 3D environment
- Implemented various unique VR interactions that enhanced immersion

### Systems Programmer, *A Storm of Voices*, August-December 2023

An emotional LBE experience utilizing directional speakers

- Designed a lobby installation for the CMU School of Drama's production of *Lear*, an experimental play exploring creating art during the impending death of a loved one
- Created *A Storm of Voices* that made the internal voices of the show's characters external to the audience through directional speakers
- Collaborated with the show's dramaturg and director to deliver a shared vision of the end product and enhance the experience of the show
- Wrote and directed all the voice lines for the experience
- Developed both the hardware and software necessary for the show system to run