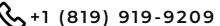
Xavier Yang









Projects

Tape Measure - AR mobile App (AppStore & Google Play)

· Used Unity's AR Foundation framework to integrate digital content into the real world. Enabled user interaction with AR objects via device camera and accurate plane detection for distance calculations.

WayToHell - 2D mobile Game (AppStore & Google Play)

· Designed and developed game mechanics, player controller, and UI scaling for devices. Optimized performance and implemented a leaderboard using Lootlocker network SDK

Sentiment Analysis of the COVID-related Reddit Posts (Paper: <u>https://arxiv.org/a</u>bs/2205.06863)

- Data Collection: Gathered comments using Reddit APIs
- Data Preprocessing: Filtered and pre-processed raw datasets
- Topic Modeling: Applied gensim LDA model for topic modelin
- Sentiment Classification: Used NLTK VADER and TextBlob to classify comments
- Validation: Sampled and calculated Cohen's Kappa score
- Machine Learning: Applied various algorithms using Python and scikit-learn: confirmed results with Weka

Location

Toronto/Markham, Ontario (willing to relocate)

Portfolio

https://krancce.github.io/

Education

Bachelor of Computer Science

Skills

C# Java Python C++ HTML SQL Lua JavaScript .NET Unity-Engine Android-Studio PyTorch React.js Phaser.js Natrual-Language-Processing

Experience

Software Developer

---CAST Group (Feb 2023 - Mar 2024)

1. Developed 3D Tracking System Integration:

- · Created a product that seamlessly integrates a 3D tracking system with PTZ (Pan-Tilt-Zoom) cameras.
- · Enabled automatic camera tracking of targets, enhancing user experience during live shows.

2. Event-Driven Camera Control:

- · Designed and implemented an event system within the software.
- · Users could define various camera actions and associate them with triggerable events.
- · Resulted in dynamic camera behavior based on specific conditions during shows.

3. Serialization System Implementation:

- · Developed a robust serialization system.
- Stored in-game content, user preferences, and critical data efficiently.
- · Ensured seamless data persistence across sessions.

4. User-Friendly GUI and Drag-and-Drop Functionality:

- · Utilized the software's GUI (Graphical User Interface) to enhance usability.
- · Implemented a Drag-and-Drop system for easy manipulation of UI elements.
- · Improved overall user experience and productivity.

5. Bug Fixing and Communication Enhancement:

- · Resolved NDI (Network Device Interface) communication issues between the software and PTZ
- · Ensured smooth data exchange and reliable camera control.

6. Multilingual Support and Customer Engagement:

- · Contributed to the translation system by adding Chinese Simplified and Chinese Traditional languages.
- · Conducted demos and presentations for customers, educating them about the product's features and benefits.