Xavier Yang

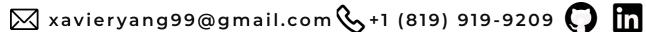✉ xavieryang99@gmail.com 📞 +1 (819) 919-9209 GitHub LinkedIn

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: https://arxiv.org/abs/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#   Python   Java   HTML
SQL   JavaScript   MySQL
Microsoft-SQL-Server
Unity-Engine   OpenAI-API
Natrual-Language-Processing

Experience

Junior Software Developer   ---CAST Group of Companies (Feb 2023 - Mar 2024)

1. **Integrated 3D tracking with PTZ cameras** for automated target tracking in live shows, significantly enhancing user experience.
2. **Developed an event-driven system** enabling dynamic camera automation based on specific show conditions.
3. **Created a robust serialization system** for efficient data storage and persistence of in-game content and user preferences.
4. **Improved GUI usability** with drag-and-drop functionality for enhanced user productivity.
5. **Resolved NDI communication issues** for reliable camera control and contributed to **multilingual support** (Chinese Simplified/Traditional).

Software Developer   ---CASH4YOU (Mar 2025 - Present)

1. **Bridge financial operational expertise with innovative technical solutions** to drive business efficiency and digital transformation.
2. **Automated branch audits** using an AI-powered inspection system (OpenAI vision models API), seamlessly integrated into the company website.
3. **Streamlined recruitment** by architecting and managing an AI-driven automation process for candidate evaluation and communication.
4. **Maintained and enhanced mission-critical systems,** providing daily technical support and ensuring smooth business operations.
5. Gained **valuable operational insight** through intensive branch training, directly supporting customer loan processes.
6. **Reported directly to the CEO,** providing technical updates and recommendations for continuous improvement.