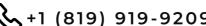
Xavier Yang









Experience

Contract FrontEnd Content Administrator

---In-TAC (Sep 2020 - Oct 2020)

- · Used JavaScript and HTML to present content in an organized, captivating manner
- · Used React to ensure the dynamic layouts function as intended
- · Implemented web design practices to ensure a user friendly interface

Teaching Assistant

--- University of Ottawa Makerspace & Science Club (Jan 2019 - May 2019)

- · Guided students with weekly coding challenges and projects
- · Provided support to class material and find interesting and non-technical ways to explain technical conceptes
- · Taught intermediate level algorithms and programming languages to students (Java, Python, C#, HTML)

Education

Bachelor Degree

University of Ottawa

Specialization in Computer Science

Graduated in April, 2022

Skills

Python Java C + +

Prolog Scheme Go

JavaScript CSS HTML

SQL Android Studio

React FortiGate C#

Unity Engine

Project

Running DownStairs - Unity 2D Game

- · Set up Unity 2D Game environment in Unity Engine
- · Designed Game Objects and set up their Physics and stored them as prefabs
- · Created C# Scripts for Game Objects and wrote logics for user to control and to interract with them
- · Created animation loops for character Game Objects and imported audio and image sources

BomberMan Battle - Unity 3D Multiplayer Game-----(Ongoing)

- · The goal is to create a multiplayer game using Photon PUN plug-in, where players can combat with each other by controling their own charactors in the game
- · Generate a battle field for players which contains destoryable objects. When player destroy one, there is a chance a buff appears and enchance player's charactor's ability
- · Players' charactors can place bombs at different places in the battlefield. Bombs will explode in a short time and caused damage to charactors in its effective area

Sentiment Analysis of the COVID-related Reddit Posts ----- (Paper: https://arxiv.org/ abs/2205.06863)

- · Collected comments from "uk", "canada" and "australia" sub-reddit forum
- · Pre-processed raw dataset and filtered out the comments related to Covid-19
- · Applied gensim LDA model for Topic Modeling
- · Used NLTK VADER and Textblob to classify comments in datasets as Negative and Non-Negative in sentiment aspect
- · Randomly chose 50 comments from each dataset and calculated Cohen's Kappa score after manually annotated them
- · Applied several Machine Learning algorithms on true-sentiment datasets using python Scikit-learn and confirmed the results on Weka software