778-798-1148 adrianlamcw@gmail.com www.linkedin.com/in/adrianlamcw

Adrian Lam

www.github.com/adrianlamcw https://adrianlamcw.github.io

Technical Skills

Languages: (500+ Hrs): JavaScript, C#, Python (100+ Hrs): C++, SQL, Java

Tools: Unity, Git, AWS

Frameworks/ Libraries: React, Vue, Ruby on Rails, jQuery, Pandas, Numpy, Matplotlib, ImageAI

Work Experience

Full Stack Software Engineering, Intern

May 2021 – Aug. 2021

Pixlee TurnTo

Toronto, ON

- Proficiently delivered priority features for the main web application using JavaScript and Ruby on Rails resulting in higher customer retention and new sales
- Developed the frontend of a product recommendation system which won third place in a company-wide hackathon enabling the potential for future feature implementation
- Maintained unit and feature tests through leveraging Jest and RSpec testing frameworks
- Led sprint development for a product review feature by creating/ sizing tasks and assigning based on priority

Full Stack Software Developer, Intern

Sep. 2020 - Dec. 2020

Finastra/Doorr

Toronto, ON

- Implemented several features for a mortgage web application following AWS serverless architecture principles
- Leveraged Vue and JavaScript to refactor and improve frontend navigation for a better user experience
- Created a mortgage application JSON object generator to test application validation in the backend
- Designed a frontend system for managing subscription services at both a user and sitewide level

Data Analyst, Intern

Jan. 2020 – Apr. 2020

Loblaw Companies Limited

Brampton, ON

- Gained familiarity with Python, Numpy, and Pandas in less than two weeks to aid in the development of mathematical models that predict transactional behaviour of over 10,000 customers
- Optimized data aggregation/filtering time from 1 hr to 30 mins with efficient SQL queries/data management
- Created several data visualizations with Matplotlib and presented data findings in a coherent manner
- Analyzed customer transaction data using different statistical methods such as hypothesis testing

Projects

Personal Website: https://adrianlamcw.github.io (includes links to all projects)

Game: Profits per Parsec (C#, Unity)

- Developed a grand strategy game aimed at managing a futuristic rocket business in the solar system
- Implemented a physical solar system model with planet and moon rotation and basic orbiting
- Developed rocket pathfinding with object avoidance in 3D space using vectors for optimal space travel
- Designed several UI elements including a research system with initial costs for proper progression scaling

Image Recognition Web App: Just Your Feedback (Python, Image AI)

- Won the Hack the North SurveyMonkey API challenge for the best and most creative usage of their API
- Led the team to create a machine learning image recognition model with ImageAI in Python to recognize hand gestures as input and automatically generate a response to a survey

Discord Chat Bot: Debt-Collector Discord Bot (JavaScript, Discord API, AWS, SQL)

- Created a discord bot that keeps track of outstanding debts between users by command input
- Used an AWS RDS MySQL database to store debt data and discord.js plus node to interact with the Discord API

Game: Estate (C++, Allegro)

- Created a real time strategy game with resource/unit management similar to Age of Empires 2
- Implemented 2D isometric image rendering order and optimal unit spawn mechanics

Education

University of Waterloo

Sep. 2018 - 2023

Candidate for Bachelor of Applied Science, Mechatronics Engineering

Relevant Courses - Algorithm and Data Structures/Computer Structures and Real-Time Systems