Darian Zhang

3B Honours Computational Mathematics Joint Statistics

d355zhan@uwaterloo.ca | (416)-454-2049 | 🗘 |





Work Experience

Dematic - Software Engineer Facilities Emulation

Jan - Apr. 2023

- Resolved 20+ Jira tickets for the 3D facility visualisation and simulation platform built on Unity3D including bug fixes, feature development, and test tasks
- Reduced platform CPU footprint by 35% by identifying and replacing inefficient method calls and implementations of the singleton pattern
- Implemented Regression test suite using TestRail

SS&C Technologies Inc. - Full Stack Developer

May - Aug. 2022

- Automated migration process by writing Python scripts that perform database migration from PostgreSQL to YugabyteDB which receives a JSON file input
- Load tested Yugabyte databases using Python scripts to create sample CSV data files and insert them to determine optimal performance using the **Ray** Python package for parallelism
- Built a Java Spring Application which connects to and performs multiple request testing on databases using multithreading

Ontario Ministry of Transportation - Junior Technical Analyst

May - Aug. 2021

- Communicated effectively with employees concerning Registration and Licensing System of Ontario (RLSO) issues to resolve 50+ incidents
- Replicated RLSO issues in UAT environment, used Microsoft Azure Application Insights to investigate incidents, and received Azure training via Microsoft Learn

Relevant Projects/Extracurricular Activities

Letterboxd Movie Picker (https://github.com/darianzhang0/Letterboxd-Watchlist-Picker)

- Coded a movie watchlist picker to obtain common movies on multiple Letterboxd.com users' watchlists using **BeautifulSoup**
- Different flags allow users to randomly choose a movie from the common movies, save information about the movies in an HTML file, and automatically open the file in a browser

Indeed Web Scraper (https://github.com/darianzhang0/JobWebScraper)

- Developed and built an automated Web Scraper using the **BeautifulSoup** Python library to obtain daily job postings relating to student developer positions from Indeed.ca
- Algorithmically ranks jobs based on user-provided keywords and utilizes a local **SQL** database to store job information

Unity Western Arcade Game (https://davvoint.itch.io/shootout-hunter)

Aug. 2021

- Designed and coded a western arcade game using Unity Engine and C#
- Implemented a random character spawner, score, player movement tracking, and multiple
- Attained over 100 views and 75 plays on itch.io

Technical Skills

Languages: Python, C++, C, C#, Java, R, SQL, HTML, CSS, Javascript & Racket

Tools: Linux, Vim, PostgreSQL, YugabyteDB, JetBrains Rider, Visual Studio Code, IntelliJ, Git, Github, Unity, Bash, LaTeX, Azure, Ray, BeautifulSoup, JIRA, Testrail, Postman