

William Tang

wj2tang@uwaterloo.ca

github.com/wjt98

linkedin.com/in/wjt98

EDUCATION

University of Waterloo

Bachelor of Computer Science (Data Science)

Sep 2016 – Exp. Apr 2021

- **Relevant Coursework:** Applied Linear Models, Experimental Design, Probability, OOP, Algorithms

WORK EXPERIENCE

Huawei Technologies

Waterloo, Ontario

Software Developer Intern

Jan 2019 – Apr 2019

- Built and deployed backend for KolmoLD web app to Google App Engine utilizing Golang and RedisDB that implements search, upload, and download functions based on content ID
- Implemented delta encoding image enhancement tool for PNG images in C++ that efficiently upscales images using a 'delta' file
- Applied various compression methods on the 'delta' file such as Run Length, Huffman, Lempel-Ziv encoding
- Automated generation and execution of test cases with Bash scripts

RPM Technologies

Toronto, Ontario

Software Developer Intern

May 2018 – Aug 2018

- Developed SQL procedures to be executed through a desktop user interface
- Created software using Oracle BI to generate a variety of financial reports for clients while following the software development life cycle (SDLC)
- Automated development with Python by generating commonly shared SQL queries

PROJECTS

Esports Statistics Database

Python, SQL, SQLite, BeautifulSoup

- Developed a web scraper using Python to retrieve match statistics from HLTV.org
- Created a SQLite database and used SQL queries to store, retrieve, and process scraped data
- Implemented multiprocessing to increase web scraper efficiency by 300%

Tetris

C++

- Implemented Tetris in C++ using the Model View Controller and Observer design pattern
- Followed RAII idiom by using smart pointers to eliminate the possibility of memory leaks

TECHNICAL SKILLS

- C++ · C · Python · SQL · Go · Bash · R

INTERESTS

- Studying piano and competing in piano competitions (Previous placements: 1st Place at Kiwanis Music Festival - Chopin Major Work, Provincial Round at Canadian Music Competition)