



Sida Wang

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 RexWangSida.github.io

TECHNICAL SKILLS

Programming C/C++, Java, Javascript, Python, Go, C#, Bash Shell, SQL, HTML5/CSS3, Verilog

Tools Git, Docker, Conda, Bootstrap, Pyinstaller, Latex, Django, Tkinter, Pyglet, NumPy, Pandas, Scikit-Learn, Unity

DBMS IBM DB2, MongoDB

OS Windows, Linux/Mac

EDUCATION

Bachelor of Software Engineering (Level 4)

McMaster University

Main Courses: Data Structure & Algorithms, Software Development, Database, Concurrent System Design, Large System Design, Software Requirement and Security Considerations, Software Testing, Linear Optimization, Software Project Management, Probability and Statistics for Engineering

GPA: 9.7/12 (cumulative total)

Academic Awards: Dean's Honor List (2018 June & 2020 June)

PROJECTS

Image Segmentation Program – Python

Personal Project / June 2020

- A Python program that performs image segmentation using **Scikit-Learn k-means clustering algorithm**.
- Implementation of GUI with **Tkinter**.

Development and Deployment of CraftMaster Web/Game – Python

Group Project / Jan 2020

- A Minecraft-like 3D software game developed in Python with **Pyglet**.
- Executable game file generated by **Pyinstaller**.
- Development and deployment of the game website with **Django**, used to hold the game for downloads and updates.
- Website: <http://rexwangsida.pythonanywhere.com/>

Study of Genetic Algorithm – C

Course Project / Oct 2018

- The program uses a genetic algorithm to mutate pixels in a randomly generated PPM image to create a duplicate image to a given PPM image over the course of numerous generations.
- **Valgrind** for debug memory leak issues etc.
- Video Link : <https://www.youtube.com/watch?v=ijqb4eleb3I>

EXPERIENCE

Front-End Developer

PULSE Lifesaving / May - June 2020

- Contributed to the front-end implementation of the company website.
- Enhanced communication skill through the meeting with the founder and the technical lead of the company.
- Practiced web development skill of transferring UI design into front-end web implementation.

EXTRACURRICULARS

International Student Mentorship

Mentor - McMaster University / Sep 2018 - Present

- Trained to be a professional and personal mentor to help the first-year international students get familiar and comfortable with the university and new surroundings.

----- REFERENCES AVAILABLE UPON REQUEST -----