

Xiang Zhang

🎓 Software Engineering, McMaster University, 2020 - Present

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Skills

- | | | |
|--------------------|----------------------------|----------------------------------|
| -Python ★★★★★ | -Verilog ★★★ | -Object-Oriented Programming ★★★ |
| -Java ★★★ | -HTML, SASS, JavaScript ★★ | -Machine Learning ★ |
| -C ★★ | -MATLAB ★★ | |
| -SQLite Database ★ | -Bash Scripting ★★ | |

Projects

To-Do List Manager -Python (Personal)

- A software built mainly by Tkinter in Python. The software can help organize our daily tasks, and it has multiple functionalities such as categorizing tasks, filtering tasks by date and subject, marking tasks as completed, etc.

Personal Website -HTML, CSS, JavaScript (Personal)

- A personal website built with HTML, CSS, and JavaScript from the ground up. Some significant features include an expandable sidebar and the mouse-interactive background.

University of Toronto Course Selection Helper -Python (Personal)

- A program that outputs all possible schedules given the courses that are required to take.
- The program is coded in Python along with some web scraping and object-oriented programming skills. The program is also further optimized after it was created, which speeds up the process by more than 100%.

Automated Surgery Tool Transfer System -Python, AutoDesk Inventor (Team)

- Work as a group to design and implement an automated system that uses a robotic arm to transfer surgery tools from a platform to appropriate autoclaves for sterilization.
- The process is simulated in a virtual environment. Python codes are used for the movement and classification of the surgery tools, and the autoclaves are built with AutoDesk Inventor.

Relevant Experiences

Shopify Website Developments 2020 Summer

- Improved the website based on SEO strategies and manage the background data of the products such as producers and prices
- Provided SEO suggestions and communicated with the employer about the development of the website

Python Tutoring 2020 Summer - Present

- Tutoring students from elementary school to high school about fundamental and advanced skills in python.
- Some basic computer structure knowledge is also covered in the tutorials.

Awards

Deans' Honour List with a GPA of 11.9/12 from 2020 Fall to 2021 Winter

Golden Key International Honour Society Invitation (for the top 15% of the program)