Guanghan Wang

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Education

University of Toronto — Toronto, ON

Bachelor of Applied Science in Engineering Science — *Sept. 2019 – June 2024*

- Current Year: 2 Intended Major: Robotics Expected Graduation Year: 2024
- 2019 Fall: Sessional % Average: 91.0, Pass with Honours
- 2020 Winter: Sessional % Average: 92.0, Pass with Honours, Sessional GPA: 3.94

Technical Skills

Languages: Python, C/C++, ARM, MATLAB, Java, HTML/CSS/JavaScript, Verilog, Kotlin
Tools: Git/GitHub, VS Code, IntelliJ, Android Studio, Intel Quartus Prime, LTspice
Frameworks & Libraries: TensorFlow, pandas, NumPy, Matplotlib
Passionate about online education.

Experience & Projects

Summer Research on Audio Adversarial Machine Learning | *Python* — Summer 2020

CleverHans Lab, Summer Research Intern — *Toronto, ON*

- Worked on audio adversarial machine learning of speaker verification
- Implemented a genetic algorithm to tackle the black box setting
- Self-learned NumPy and TensorFlow from scratch in the process
- Achieved the goal of lowering the model accuracy below 1%

Learning Scheduler (link) | *Python* — November 2020

Hackathon, Team Leader — *Toronto, ON*

- Developed an application which can generates a schedule automatically and helps overcome procrastination and develop better time management skills while studying at home to improve the digital learning experience
- Implemented a graphic user interface in PyQt5
- Open-sourced on GitHub

Assignment Due (link) | *Python* — March 2020

Hackathon, Team Leader — *Toronto, ON*

- Developed and tested an application to manage group TODO lists using Python
- Implemented the user interface in both the command line and graphics
- Open-sourced on GitHub

Personal Website (link) | *HTML/CSS/JavaScript* — Sept. 2019 – Present

Side Project

- Designed and developed a modern-looking portfolio using HTML, CSS, and JavaScript
- Self-learned techniques to create modern and interactive web pages

Courses Enrolled

University of Toronto — *Toronto, ON*

ECE253H1	DIGITAL AND COMPUTER SYSTEM	IPR
ESC190H1	COMPUTER ALGORITHMS & DATA STRUCTURES	A+
ESC180H1	INTRODUCTION TO COMPUTER PROGRAMMING	A+

Stanford University — *Stanford, CA*

CS 106B	PROGRAMMING ABSTRACTIONS	A+
CS 193C	CLIENT-SIDE INTERNET TECHNOLOGIES	A

Honor & Awards

2020	The John M. Empey Scholarships (achieving the highest average percentage of marks in the year)
2019	University of Toronto Scholar
2018	AP Scholar with Distinction Award
2018	Intensive Study on Computer Science, Stanford University
2018	Chinese Informatics Olympiad Provincial (NOIP) Third Price
2018	Physics Bowl Contest Regional Top 10 & Global Top 100