Guanghan Wang

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Education

University of Toronto — Toronto, ON

Bachelor of Applied Science in Engineering Science, Major in Machine Intelligence — *September 2019 – June 2024*

- Current Year: 2 Expected Graduation Year: 2024 Cumulative Average: 3.88/4.0
- 2019 Fall: Sessional % Average: 91.0, Pass with Honours
- 2020 Winter: Sessional % Average: 92.0, Pass with Honours, Sessional GPA: 3.94
- 2021 Fall: Sessional % Average: 89.6, Pass with Honours, overload an extra course
- Courses Enrolled:

ECE361H1	COMPUTER NETWORKS I	IPR
CSC343H1	INTRODUCTION TO DATABASES	IPR
ECE253H1	DIGITAL AND COMPUTER SYSTEM	A+
ESC190H1	COMPUTER ALGORITHMS & DATA STRUCTURES	A+

Stanford University — Stanford, CA

Undergrad HS Summer Visitor, Intensive Study on Computer Science — *June 2018 – August 2018*

- Cumulative Average: 4.187/4.3
- Courses Enrolled:

CS 106B	PROGRAMMING ABSTRACTIONS	A+
CS 193C	CLIENT-SIDE INTERNET TECHNOLOGIES	A
Coursera	MACHINE LEARNING by Andrew Ng	Summer 2020

Technical Skills & Interests

Languages: Python, C/C++, ARM, MATLAB, HTML/CSS/JavaScript, Verilog, Java, Kotlin
Tools: Git/GitHub, Wireshark, Intel Quartus Prime, ModelSim, LTspice, LaTeX
Frameworks & Libraries: TensorFlow, pandas, NumPy, scikit-learn, Matplotlib
Interests: passionate about online education, love Japanese anime and Chinese classic literature

Experience & Projects

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

CleverHans Lab (University of Toronto and Vector Institute), Summer Research Assistant — *Toronto, ON*

- Implemented a genetic algorithm to tackle audio adversarial ML of speaker verification under a 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 generating schedules automatically to improve digital learning experience
- Implemented a graphic user interface in PyQt5 and open-sourced the project on GitHub

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

Hackathon, Team Leader — *Toronto, ON*

- Developed and tested an application to manage group and individual TODO lists using Python
- Implemented the user interface in both CLI and GUI, and open-sourced the project on GitHub

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

Designed and developed a modern-looking portfolio using HTML, CSS, and JavaScript

Student Organizations — September 2020 – Present

Student Clubs, Executive Member — *Toronto, ON*

- University of Toronto Application Development Association, Technology Department
- Associated of Chinese Engineers, Marketing Department, Web Master

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	Chinese Informatics Olympiad Provincial (NOIP) Third Price
2018	Physics Bowl Contest Regional Top 10 & Global Top 100