Guanghan Wang

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EDUCATION

University of Toronto, ON

Bachelor of Applied Science in Engineering Science, Machine Intelligence option September 2019 – June 2024

• Current Year: 3 Expected Graduation Year: 2024 Cumulative Average: 3.92/4.0

ECE361H1 COMPUTER NETWORKS I A+
CSC343H1 INTRODUCTION TO DATABASES A+

CSC343H1 INTRODUCTION TO DATABASES A+ ECE253H1 DIGITAL AND COMPUTER SYSTEM A+

ESC190H1 COMPUTER ALGORITHMS & DATA STRUCTURES

Stanford University Stanford, CA

Undergrad HS Summer Visitor, Intensive Study on Computer Science

June 2018 – August 2018

A+

• Cumulative Average: 4.187/4.3

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

Coursera

Deep Learning Specialization by Andrew Ng (certificate) Summer 2021
Stanford University Machine Learning by Andrew Ng Summer 2020

TECHNICAL SKILLS & INTERESTS

Languages: Python, C, Dart(Flutter), ARM, Verilog, MATLAB, HTML/CSS/JavaScript, SQL, Java

Tools: Git/GitHub, Wireshark, Bash, LATEX, Intel Quartus Prime, ModelSim, LTspice

Frameworks & Libraries: TensorFlow, NumPy, Matplotlib, React Native, pandas, scikit-learn

Interests: passionate about online education; Japanese anime and Chinese classic literature; course overloading

Experience & Projects

Summer Research on Deep Learning | Python, TensorFlow

Summer 2021

Toronto Systems Security Lab (University of Toronto); Summer Research Assistant under Prof. David Lie Toronto, ON

- Collected logs and code coverage using a fuzzer based on AFL
- Trained a LSTM neural network to predict code region coverage based on logs
- Achieved an accuracy of 90.59% on openssh/wolfssh pair

Summer Research on Audio Adversarial Machine Learning | Python, TensorFlow Summer 2020

CleverHans Lab (UofT and Vector Institute); Summer Research Assistant under Prof. Nicolas Papernot Toronto, ON

- Devised 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%

Goal? Go! (link) | React Native

February 2021

Hackathon, Team Leader

Toronto, ON

- Developed a mobile application to help users keep track of their goals and share them with friends or the public
- Aimed to strengthen the connections among people and promote a more active lifestyle during pandemic
- Implemented in React Native and open-sourced the project on GitHub

Learning Scheduler (\underline{link}) | Python

November 2020

Hackathon, Team Leader

Toronto, ON

- Developed an application generating schedules automatically to improve digital learning experience
- Designed a graphic user interface in PyQt5 and open-sourced the project on GitHub

Personal Website (Portfolio) (\underline{link}) | HTML/CSS/JavaScript

September 2019 – Present

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	(T) T 1 3 (T)	0 1 1 1 1 / 1 1 1 1	1 • 1 ,	entage of marks in the year)
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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