

Timothy Wang

Toronto, Ontario, Canada

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Professional Experience

FIRST Robotics Competition

Toronto, ON

Programmer, Designer, and Manufacturer

September 2017 - **present**

- Led a team that helped integrate Shuffleboard into FRC robot control system
- Implemented a variety of algorithms and functions that allowed for PID control
- Designed a pneumatic wheel shooter that allowed the robot to pick up and shoot cubes
- **Technologies used:** Java, C/C++, SolidWorks, Shuffleboard, Smart Dashboard

Projects

Developed and contributed to dozens of open-source projects on my GitHub profile, Timothy

Type It, an offline typing speed test application

- Solo project that took inspiration to develop a better typing speed application
- Live speed graphing using Matplotlib, Error display, custom test, NumPad mode
- **Technologies used:** Python, Matplotlib, Tkinter

Competitive Programming, solved a large number of problems of varying difficulty

- Solving problems from a variety of contests, including CCC, CCO, COCI, IOI, ACM-ICPC, and more
- Used a variety of algorithms from Dynamic Programming, Graph Theory, and more
- **Technologies used:** Java, Python, C/C++, Go, Kotlin

Hack the 6ix, Toronto's largest summer hackathon

- Used the TensorFlow API that used machine learning to detect cars when insight
- Used Java to create a subscriber program that took data from the TensorFlow API and used MQTT, STDLib, and Twilio to send mass text message to people around a certain area
- **Technologies used:** TensorFlow, MQTT, STDLib, Twilio, Java, Python, OpenCV, Machine Learning, Raspberry Pi

Achievements

- 1st place team at FIRST Robotics Competition Windsor Regional
- Contesting team at FIRST Robotics Competition World Championships

Education

Crescent School

Toronto, ON

Grade 10 Student

2017 - 2021

- Expected graduation in June, 2021
- 3 term honor student