Alex Xie

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# SUMMARY OF QUALIFICATIONS

* + Excellent programming skills, gained from project experiences (Course work, online projects and volunteer participation in developer groups)
  + Exceptional self-learning skills, shown by receiving satisfying grades in school and self-learning multiple programming skills (Linux OS, Windows cmd, Web development) using extracurricular time
  + Outstandingly adaptive, fit in new environments swiftly with confidence and passion
  + Creative, willing to explore technologies beyond imagination
  + Great collaboration skills, developed through organizing activities with other union leaders as Vice President of Wan’an High school’s student union

# SKILLS

### **Programming Languages** C++, Java, C#

### **Frameworks** Google test

### **Other** Git/GitHub, Unity, Linux OS, Windows cmd, Microsoft Office,

### MATLAB, Effective learning, Problem solving, Collaborating

# EDUCATION

### **Candidate for Bachelor of Applied Science in Engineering**

### Electrical and Computer Engineering, University of Waterloo, Waterloo, ON *Sep 2019 –present*

* + Relevant courses: Algorithms and Data Structures, Fundamentals of Programming
  + **Relevant project: ACB reporting for ETFs generator**
    - Developed two classes in a list-like structure, implemented functions to operate with input files and designed the algorithm to process the data.
    - Wrote a driver program to help users interacting with the data easier.
    - Used google test framework to write unit tests and achieved the task more efficiently.

# PROJECT EXPERIENCE

**EV3 Robotic**

Renison College, University of Waterloo, Waterloo, ON *Jul 2019-Aug 2019*

* + Designed and built a EV3 Robot based on tasks given as the main builder in a team of three.
  + Assisted in programing during team discussions.
  + Collaborated with the team and successfully enabled the robot to fulfill the tasks given.

**TouhouHearthStone (strategy game)**

Online Group Project *July 2020-present*

* + Designed an action value evaluating standard for this game’s AI.
  + Wrote unit test cases based on bugs found by players and fixed the bugs.
  + Participated in group discussions and provided a few thoughtful ideas.

# OTHER EXPERIENCE

### **Artificial Intelligence Winter Camp**

### Sun Yat-sen University, Guangdong, Guangzhou *Jan 2019*

* + Applied and learned the knowledge of Internet of Things, Internet of Cars, Big Data and Deep Learning through lectures and hands-on operations like driving a drone.

**Vice President**

### Jiangxi Wan’an High School Student Union, Ji’an, Jiangxi *Oct 2017 – Mar 2019*

* Organized a charity talent show for a special school for disabled students.
* Participated weekly in the student union meeting to help president manage student clubs.
* Drafted broadcast release if any student union activities are to be held.