When I was young, the first contact with science fiction makes me a complete science fiction fan. I still remember the first fiction I read: The Hitchhiker's Guide to the Galaxy. When the supercomputer Deep Thought spends millions of years to compute and get the “Answer to the Ultimate Question of Life, the Universe, and Everything is 42”. The astonishment at that time is so big. Since then, I’ve developed an interest in artificial intelligence. The year when I graduate from high school, the news of Alfa-Go defeated all human masters really excites me. As you can guess, I went to study Electronic and Computer Engineering is one of the top universities in China. In Shanghai Jiaotong University, I’m so excited to learn those things related to my interests. I used to think AI was mysterious and super powerful. But the deeper I learn in the discipline of Algorithm and Programming, the better and clearer I know the essential principle of an AI. After I have developed several AI projects, I affirm my goal to become an AI developer. I have much faith in AI and believes with good use of them, they will convenient our life in an unexpectedly powerful way.

In my first semester, I worked individually on an AI developing project, which is an intelligent Othello player. I devoted myself to this project, reading books related to AI Algorithm, Game Theory, and C++ language. A week later, the competition begins. Programmers upload their AI to a platform and start competing with each other. After days of matching, my AI has achieved an excellent score! This brings me great confidence and motivation to keep learning more and more about AI. I know that the School of Information in UM has enormous wonderful lectures on these topics. I admire the famous professors who taught or maybe the father in this discipline. I believe I can learn more and better in SI.

Since then, I work very hard on Calculus, Linear Algebra, and Algorithm to make me qualified for developing more complicated and versatile AI programs. I also attend an SJTU student research on the topic of Computer Vision. My main job in the research team is to develop a fast neural network to get the movement information of a vehicle. This job is much harder than before. I took several months learning the YOLO Neural Network and Lee Algebra. Finally, this problem is well solved and I’m currently working on publishing this App through the App Store. This research project provides me tons of experience in developing a standard and problem-oriented AI program. Also, I’m able to not just constructing an idea but also correlates it with hardware to make an AI actually “lives”. This research is just a start to me, with this experience, I’m willing to take more challenging projects to work on. The SI of the University of Michigan is full of those interesting while challenging projects. I believe I can learn more and work out those research projects better with the help of excellent professors and colleagues.

Another key quality I have is leading and communicating ability. As for the programmers, the era that an individual can develop software like WeChat is long gone. Therefore, having abundant professional skills in developing AI is far from enough. The communicating ability has great importance when developing an AI program in a group. In SJTU, I am a member of the Host Club. I’m trained to communicate with invited lecturers. The experiences of hosting big events in university also train my communication ability. This ability also gives rise to my leading ability since majorities in a programmer group are usually shy. So, I’m willing to take the leading position. I fully use my specialized knowledge in AI and my leading ability in the competition this spring. In the 2020 Math Competition of Modeling, I lead my team member to take the challenge of Problem D which is related to Graph Theory, Neural Networks, and Big Data. It was a complicated question that asks us to establish a model of evaluating a football team only based on the data recording each event in the play. We took 4 days to complete the task and get the Meritorious reward (~7%).

I still remember the first day in college, our headmaster said “For centuries, great engineers have been changing the world, dedicated to make our world a better place”. This sense of obligation motivates me and supervise me to make good use of technology. The engineering code is consistent with my belief. I have confidence that I will live up to the expectation of the university and becomes an AI developer who spares every effort to solve the problems in human life. I’m looking forward to being enrolled in the University of Michigan, School of Information to learn more and devote myself to the development of AI technology as well as human life.