Personal Statement

--for Msc of Advanced Computer Science at The University of Leeds

--by Min Jin from Tianjin Polytechnic University

Positively influenced by my father who is a university professor dedicated to the field of computer science, I have stimulated increasingly growing interests in various computer technologies. Driven by such abiding interests, I have actively undertaken wide-ranging research projects concerning software development, hardware design, algorithm optimization and mathematical modeling contest. Actually, I have immersed myself in great sense of accomplishments while overcoming varied technical challenges occurring in these fulfilling practices, although I usually have to stay up late optimizing models, implementing algorithms and debugging programs. It is also benefiting from these research projects that I have not only strengthened my professional skills but also become more eager to explore the world of computer science. To realize my further research pursuit, therefore, I am determined to pursue the Master of Computer Science at The University of Leeds .

I once participated in the research on intelligent remote control and telemetry system. In this project, I mainly took charge of software and algorithm design, program debugging, and experiment conducting. Actually, we expected to realize demanding equipment functions such as strong compatibility to different equipment, accurate control, measurement and massive information feedback functions. Faced with this challenge, I worked closely with my team to try a suite of alternative technologies like SCM and FPGA, only to find our proposed technological schemes failed in reaching our expectations. Instead of feeling frustrated, I encouraged my teammates to face difficulties optimistically and find solutions from broader perspectives. After trials and errors, I solved the problem by applying one chip microcomputer, Internet of Things technology, as well as advanced digital communication technique. Based on above-mentioned technical means, we successfully realized an all-round system that could be applied to fields such as electricity generation, city gas supply and flood control. This project also stirs up my research interests in computer science, especially in cloud computing, big data and machine learning at graduate level.

It is also worth mentioning that in February this year I competed in the Mathematical Contest in Modeling (US) working on exploring the prevention methods and pharmaceutical formula proportion of Ebola virus as the captain. As for organizational administration, I made full use of my managerial leadership in team motivation, opinion coordination and project implementation. As for technical execution, I played a leading role in establishing the epidemic model of Ebola virus and visualizing the model using Matlab. While studying the pharmaceutical formula proportion of Ebola virus, I found traditional Dijkstra algorithm just focused on point-to-point transportation. To realize multidirectional transportation, I organized the team discussion and looked up plenty of research papers. Through brainstorming, we finally worked out an improved algorithm which enormously shortened the computing time and increased the calculating precision. From this project, not only have I polished my capabilities in algorithm design, computer simulation, mathematical derivation and paper writing, but also I significantly honed my soft skills in communication, teamwork, leadership, big-picture thinking.

Inspired by my above-mentioned theoretical learning and research experiences, I have further confirmed my determination of pursing the Master of Science in Computer Science at the University of Leeds because this particular program can exactly help realize all my research and career goals. The University of Leeds also has maintained longstanding partnerships with industry-leading technology corporations which develop plenty of research projects cooperating with others. As a consequence, I have precious opportunities to work alongside experienced professors to engage in various projects to strengthen my ability in applying theory into practice. Together with the University of Leeds 's worldwide alumnus network and industry connection, I can access to more high-quality employment opportunities and pave the way for future career. To summarize, the University of Leeds

is a good fit for me.

Speaking of my future career objectives, I first plan to work for an innovative technology company specializing in Computer-related. If necessary, I will consider pursuing a PhD degree concentrating in my most interested field such as data analytics, machine learning, and image processing. All in all ,I firmly believe studying at University of Leeds can assist in realizing all my career goals and social values, and hence I am highly motivated to join the University of Leeds..