1. 基本信息：姓名、年龄、家乡、本科学校和专业、工作经历、报考的专业和方向、兴趣爱好

Good morning/afternoon, my dear teachers and professors. I am very glad to be here for this interview. My name is Wu Jiangyong. I am xx years old. I come from Jingzhou, Hubei Province, a small city of ease.

My undergraduate period had accomplished in University of Science and Technology Beijing in 2015. I major in Computer Science and Technology. After graduation I worked in a startup company as an Android developer for a short time. And now, I am working as a QA in a listed company. Since qa means quality assurance, most of my work is about develop management or project management.

When I was at school, I learnt courses about computer languages, about computer basic theories and about computer applications. Generally speaking, I know about the fundamental theories and master some basic skills. However, the longer I work , the more strong feeling of short of knowledge I have.

Owing to my great interest with big data and machine learning, I choose the technology and application of big data as my research direction. I hope I can learn more and make a progress in this field in the days to come.

Besides study and work, in my spare time I like to go to climbing, go to camping and take a photograph. I reached the highest peak of Beijing several times. Almost every time we would camp on the half way up the mountain. As for photography, I like to take portrait, landscape, architecture.

Today, I am trying my best for obtaining a key to Peking University. Hope I could get the opportunity to finish my postgraduate courses at this place which I have desired for a long time. Once admitted into PKU, I will spare no efforts in studying and making myself become a better professional in computer science.

That's all, thank you for your attention. Thank you for considering me as a potential candidate.

2. 介绍兴趣爱好、性格、能力和优缺点

I am kind and friendly. Always ready to help others. I am outgoing and easygoing, so I can always get on well with other.

I like outdoor activities, such cycling, climbing, camping, photography and watching movies. I like science fiction film. My favorite movie is Westworld, actually it's a TV serial. The story takes place in the fictional Westworld. It's a technologically advanced park populated by android hosts. People pay money to come the park, do something illegal to seek thriller, they don't have to take any responsibility for murder, rob or any other things, because these victims are robots. These robots repeat their life day after another day. Finally, they have consciousness and realize the truth, and then they resist , they plan to escape from the park.

I suppose my strengths are I'm persistent and a fast-learner, careful, attention to detail, work

with perseverance, patience. My weakness is that sometimes to serious, may lead to inefficient.

3. 介绍家人

I was born in a rural family, my parents are both peasants. They have a tough, hard life. They sacrificed everything, work very hard to raise my three elder sisters and me, funded me to attend school. I owe them too much and it's not enough to pay them back even with my whole lifetime. I have a wise, responsible mother and a gentle father. They are my best teachers and I learnt a lot from them. As for my three elder sisters, they all married already. They love me very much since I was born. They have given me many help and I am much indebted to them

4. 介绍家乡（水资源，种植，养殖，小龙虾，历史，名人，名胜，美食）

I come from a small city called Jinzhou, located in a middle province of China, Hubei. It's more than 1400 km from Beijing. Jingzhou is rich in water resource, so it's suitable to develop planting industry and aquaculture industry.

People in my hometown plant much kind of crops, such as rice, soybean, sesame and rape, and feed much kind of fish. So my hometown is called *Land of Fish and Rice*.

What's more, Jinzhou is also a famous historical city. People know about it from the novel *The Romance of the Three Kingdoms*. As we know, Jingzhou is a hotspot in military in ancient China, so Liu Bei once lent Jingzhou from Sun Quan, and never returns to him. Besides, Jingzhou is hometown to many famous people, such as Wu Zixu, Zhang Juzheng and so on.

People in my hometown are very friendly and hospitable. And welcome to Jingzhou!

5. 介绍母校（历史、校训、特色专业、最难忘的记忆、同学、老师）

I was graduated from University of Science and Technology Beijing. USTB was founded in 1952, so it's about 67 years old. It is renowned for its study of metal and materials science. It was chosen to be part of China's "211 Project". The university's motto is Rigorous in Learning and Research and Venerating Practice.

I will never forget the campus's two big canteens. Each of them is four stories high. Each floor can accommodate 2000 students at least at the same time. For me, the most unforgettable food of USTB is fried chicken. It's really delicious. I do not know how they cook it, but it tastes very good. Besides, it's much cheap. They sell it only four Yuan.

My favorite teacher is Mrs. Li. She teaches history. It's a public optional course. All the students like her for her passion and humor in class. She is not just showing us the ppt on the

screen. She writes a lot on blackboard and her handwriting is very good.

My best friend of USTB is. Let's just call him Liu. Liu and I have the same hobby, we are both outgoing and we are members of Primitive Tribe. Primitive Tribe is a students' club. This club organizes outdoor activities, such as skiing, climbing, camping, rock climbing and so on. Liu and I often go out have some fun together. We know each other well and we keep in touch with each other until now.

6. 介绍本科学的专业课程和毕业论文

My major is computer science and technology. The courses of my major can be divided into three categories. The first is computer language, such C, C++ and Java. The second is about computer basic theory, like operation system, computer network, data structure. The third is about computer application, like artificial intelligence, data warehouse and data mining.

Among these courses, I'm interested in most is data structure. It tells us how the data organized. Sometimes is a vector, sometimes is a stack. Sometimes they are arranged like a queue, sometimes they are arranged like a tree. There are many kinds of structures you can choose, but when you make a choice, you have to think about the efficiency. How long it will cost and how much space it will take up. Our job is to finish the things done with shortest time and least amount of space.

My dissertation is *The Development of IM Software Based on Android*.

7. 擅长的课程、语言、用该语言做过什么

8. 项目、工作经历

Actually, it has been a bit long time before I left the last company. May I tell you something about my current job and the company I work for now?

I work in Surfilter as a QA now. QA means quality assurance. Surfilter is a listed company which provides IT service solutions for state enterprises and public institutions, such as Ministry of Public Security, Ministry of Industry and Information, bank and so on. Most of our product is about public security, information security and network security. One of the company's product is about online finance. It aims at finding out irregular load platform and monitoring its illegal operations, and then reports those information to the government. Other product can help police to find out criminal suspect or to find out online remarks those against the government.

As a QA, my responsibility is to guarantee the quality of the software by tracking the project from the beginning to the end, by controlling develop procedure. Make sure every member of the team, including project manager, develop manager, developer, and test, make sure that what they do must obey the principles. They should write requirement documents, design documents and any other necessary documents. Before coding, WBS must be finished. Before

testing, test case must be reviewed. We do it like this and then the project has a greater possibility to become a success, it will be more possible for our guest to accept the software.

9. 介绍大数据技术与应用方向（大数据的概念、特点、用途、常用算法、专业、自己的看法）

Big data means large collections of data. With the development of information technology and mobile internet, people produce massive data every day. Many valuable clues can be found from those data, so how to get data, how to process data, and how to apply them become focus recently. The big data and its accompanying technology like data acquisition, data storage, data cleaning, data mining and data visualization becoming increasingly valued by people.

With the help of technology of big data, police in Los Angles can prevent the crime from happening, because they can predict where the crime scene will be. Google can forecast how the birds' flu spread. Scientists can predict who will be the winner of the US presidential election.

Big data has a strong relationship with cloud computing. Since the data is volume, so it can't be processed by just one or a few computers, and it has to be processed by lots of computers which are organized with distributed architecture.

Actually, a few days ago, I read a book named Big Data, its Chinese name is 《大数据时代》。In the writer's opinion, big data will lead to a revolution that will transform how we live, how we work, and how we think. The book tells us the writer's three principles of big data. First, big data is not random sample, but the whole data. Second, big data is not accurate, but messy. Third, big data is not causality, but correlation. I have no doubt with the first two viewpoints. As we know, IBM put forward 5Vs to describe big data: they are volume, velocity, variety, value, veracity. According to the 5Vs, big data must be the whole data and messy. But I do not agree with the third viewpoint. I do not think correlation is more important than causality. Maybe the writer wants to make his book more attractive, so he put forward such sharp opinion.

10. 介绍大数据和机器学习算法（《数据仓库和数据挖掘》）

Data warehouse is a system used for reporting and data analysis. I learnt some algorithms about big data and machine learning, such as apriori, knn, and k-means.

Apriori is an algorithm for frequent item set mining and association rule learning over transactional databases. Apriori uses breadth-first search and a Hash tree structure to count candidate item sets efficiently.

Naïve bayes is a kind of classification algorithm. It based on a common principle: the classifiers assume that the value of a particular feature is independent of the value of any other feature. This principle may lead to inaccurate classification.

As for knn, it's also a kind of classification algorithm.

K-means is a kind of aggregation algorithm. It aims to partition n observations into k clusters in which each observation belongs to the cluster with the nearest mean.

These algorithms can mine valuable information from big data. They are all useful tools to process data.

11. 报考北大、报考这个方向的原因（地理位置、名校、有同学、专业热门、自己喜欢）

The big data and machine learning is a hot issue.

12. 北京的印象、北大的印象

（大、行政中心、文化中心、景点、美食）

Beijing is the center of politics, culture and diplomacy of the whole nation. It's a big city with many places of interest, with many universities and colleges, with many companies, both start-up and listed company and also with many people. I have been in Beijing for more than 6 years. Many changes have taken place in this place during the past 6 years. Firstly, the traffic of Beijing improved a lot recent years. In 2011, there is not much subway. But now, Beijing has almost 20 subway lines and it relieve the ground traffic pressure effectively. Secondly, air quality of Beijing improved a lot. When I was still a student, I remember that people have to wear a mask when winter comes. Due to great efforts of the government, people do not concerned at the state of air in the capital at all. Thirdly, with the improvement of living conditions, more and more people come here and stay. It's more competitive for students to apply for a college and for people to find a job.

I like photography, and I like taking landscape. At the same time, I am also fond of cultural relics. So I often go to the Summer Palace, it's my favorite park. The Summer Palace have glorious palaces and a big lake named Kunming Lake. The beautiful scenery and rich cultural connotation of the Summer Palace attracted people from all over the world, including me. What impressed me most is the bridge of the park. There are nearly 20 bridges in the park. Each of them is different.

It is the best university of China. I have been dreaming of getting into Peking University since I was a little child. This university brings together the most talented students and top professors of the whole nation even the whole world. I am looking forward to studying and working with them, improving myself, repaying my parents. That's why I am applying for Peking University.

The campus is very beautiful, with many traditional style buildings and beautiful scenery. It's known for its Boya Tower, Weiming Lake, and the library. People call them three together "一塔湖图". I like going ice-skating on Weiming Lake in winter and sometimes taking a walk in Langrun Yuan.

13. 研究生的学习计划

In the first year, have a good study of my lessons and get high scores; learn some algorithms about big data. Read some papers which are related to my research direction.

In the second year, take part in an internship in the teacher's lab or an IT company and keep studying.

In the third year, finish my final dissertation carefully and seriously and graduate with honors.

14. 职业规划

After 4 years' postgraduate study, I would like to stay at school to do further research in the field of big data and machine learning, get my doctor's degree. Or work as a research developer in an IT giant, apply what I will have learnt to practice.

15. 双学位

My English dissertation is The Comparison and Contrast of Jin's and Xiao's Translations of Ulysses from the Perspectives of Domestication and Foreignization.

Domestication is similar to free translation, foreignization is similar to literal translation. But domestication and foreignization are much more complicate. It's not just about the processing form and meaning in the level of language. They focus on the differences of the two translations from cultural aspect, linguistic aspect, aesthetic aspect.

Fox example, if you translate 饺子 into dumpling, this is domestication. But if you translate 饺子 into Jiaozi, this is foreignization.

James Joyce was an Irish novelist. He is regarded as one of the most important authors of the 20th century. Joyce is best known for *Ulysses*. Other well-known works are the short-story collection *Dubliners* , and the novels *A Portrait of the Artist as a Young Man*. There is a book list name the top 100 English novel. Joyce's Ulysses ranks first and the two other works are on the list too.

Ulysses is a modernist novel written by Irish writer, James Joyce. It is considered to be one of the most important works of modernist literature. The book describes the hero's experience of an ordinary day in Dublin.