**P 6**

2021-10-5 10:2:53

【ask】

Well, okay, then our interview will start now. Well, first of all, I would like to ask you to introduce your professional background and your development experience. For example, you can briefly describe where you started from. Time to start doing development, and then probably for a few years.

【answer】

Well, okay, my professional direction is X XXX, and some of my development directions are also biased towards some security development. For example, some security product development has been done, and then because I am doing cloud computing , it also involves some development. If I had an internship, I had an internship, that is, I had an internship at X X, and I had been exposed to several products, one was the development of a test tool, and the other was that they had already launched the X XXX app at that time. The follow-up maintenance, so in this process, I came into contact with some developer documents on their side, and I also wrote some software competitions when I was an undergraduate, and then I wrote some developer documents by myself at that time. Not so canonical .

【ask】

Well, very good, so how much development experience do you have ?

【answer】

It is estimated that the development experience is almost within a year, that is, between half a year and a year.

【ask】

The second question is that we want to know what you think of yourself as a programmer. Our research is aimed at Chinese developers, and then we want to know what you think about Chinese developers and people in other professions. What are the features compared to?

【answer】

Um, Chinese developers? Because of development, I think it is a thing that a lot of people work together first. It does not mean that the work that can be completed by one person in a few days does not mean that 10 people can complete it in a day, because communication is very time-consuming, so I think the development document One of the main functions is to improve the efficiency of a communication, and then the difference with foreign countries may be because of China . Not so specialized, mainly everyone is responsible for their own small piece of content .

【ask】

Well, what do you think is the difference between Chinese programmers in terms of living habits or learning habits ?

【answer】

Well, because I don't know much about foreign countries, I can only talk about some of my knowledge of Chinese programmers, because some Chinese programs I have come into contact with in the company are because everyone comes during working hours. Yes, the working hours are relatively long, basically 996, and there may not be a lot of time to learn and improve myself, and then generally I only develop based on my project , and I do n't have any technical skills outside my project. may not know very well . Then based on my project development, it may also be for my project , which is where I am. For example, I am responsible for two interfaces , then I will only study this aspect in depth. Maybe not even in-depth research , just learn while doing projects , because it is true that Chinese developers can leave too little time for themselves .

【ask】

Hmm, but you still mentioned the need to learn, right? So do you think the learning habits of programmers are different from those of other professions?

【answer】

First of all, the learning of programmers must be based on a large amount of English reading, and then practice while learning, which may be a big difference, and then because of various developments, its knowledge system is actually very complicated. , and then if you want to learn completely before development , it is also more difficult, so basically you will learn what content you encounter, that is, it may not have a particularly systematic study, just learn what you encounter .

【ask】

Well, most of the time is self-study, or is it learned through other means ?

【answer】

Well, the general way is to ask colleagues for advice. I think this is the most efficient method, because the pits you have stepped on will also be stepped on. In addition , you can read some documents online, or read online. For some videos, I think the efficiency of watching videos is higher than watching documents, because it is always difficult to understand large texts , especially large texts in English .

【ask】

Well, I understand, then you can talk about it roughly, just recall a new software or new technology you have learned recently or before , that is, the software technology or a certain tool used in development, um , and then can you briefly talk about what your entire learning process is like? It is from the moment you hear about or decide to learn this tool , to actually learn it, and then use it to accomplish something, you can recall the process .

【answer】

Well, then I want to talk about a software, which is used for that penetration system , called Burp Suite. If this software is used, we may use more security data. The main function of this software is to use Some, it is also often used in testing, and it is often used in network security penetration attacks . Its main function is to capture the data packets sent by my website , and then read the data after capture . The content of the package, and then send a data packet to the website, it just made such a content . For example, when we are cracking passwords, you may often use this tool, which is used to pour our password set into it, and then package it and send it to see if it is correct. If I use this tool, it is very difficult for me to use it, because it is a pure English interface. When I came into contact with it , I was also in the process of the game, and then I used it in the process of the game , just as I used it. Ask your teammates how to use this, and then learn it. This is a process, but because the functions used during the game are very limited, the learning at that time is also not very systematic. I will wait until I have time later. I specially studied this software . For example, I went to see some technical blogs written by everyone on C SDN, or asked my classmates if they had studied it before, and then asked them for their personal websites. Some of them are also written on their personal websites , or in other words, I have also watched some videos on station B now. Basically, I learn from these channels .

【ask】

You mentioned tech blogs, then your classmates' own personal websites and some video tutorials, right ? Was it the students who made the website like this ?

【answer】

Yes , that is, the classmates bought a server by themselves, then bought a domain name by themselves , and built their own website .

【ask】

What's on this site ?

【answer】

Well, for example, it is the learning we just encountered , how to use this software, they may be written on it, for example, if I do a very interesting small project, I will also write my idea and some key codes. , or if I encounter any technical difficulties, I will write it up. In short, this website is a retrospective content for us, which is to avoid me learning it now, and then I will forget it later, because the programmer's Learning is very extensive, and it is possible that you have learned this year , and you will completely forget it a year later .

【ask】

Well, I see. In the process of learning, in addition to using these materials, will you also use the documents provided by the software itself ? Will this software itself provide some official documentation ?

【answer】

This will be provided, but I will read less, because they are all in English, that is, the English reading ability is not very strong .

【ask】

Is this document integrated within the software, or is there a dedicated official website for you to read ?

【answer】

My software is integrated inside the software , and there is a help document .

【ask】

Well, you can see this when you click in, right? But because it is all in English , there is no Chinese version, right , so it is slow to read, so you just give up reading this document, right ?

【answer】

Yes .

【ask】

Oh, well, I probably understand. It is equivalent to whether the entire learning process still needs to read documents, or some other auxiliary materials, such as videos, etc. , but one obstacle encountered is its official documentation, because the language obstacles, so you can only learn through other auxiliary materials , channels, right?

【answer】

Yes.

【ask】

So can you recall any other examples that you can learn from this official documentation ?

【answer】

For example, I was in a relatively important exam at that time, and then the exam was allowed to use official documents , and there were some things I couldn’t remember at that time, because it was not allowed to go online, so I took the exam at that time. , I can only use its official document to conduct some temporary learning, but also to cope with the exam . I remember that it was a compiler at the time, because it came with a compiler during the exam, but I have never used that compiler, so I don't know how to use it either. If I do n't know how to use it, I will ask the teacher He suggested to me to say, um, although we can't connect to the Internet, there is an official document for it to let me see how to use it .

【ask】

It's the kind of compiler you use for programming, right?

【answer】

Yes, that software, DCP C++ , I usually don't like it.

【ask】

Is this document in Chinese or English?

【answer】

I remember that this document was given in Chinese by the teacher at the time.

【ask】

teacher provided it, right ? So you think it 's official documentation ?

【answer】

It is official , the teacher seems to have given a Chinese version of the software at that time .

【ask】

Well, I understand, then the main purpose of using this document is to check if you encounter something you can't do during the exam, right ? Understood, okay, then I want to ask you about your understanding of the entire technical documentation. First of all, I want to know, do you think technical documentation is important for development work?

【answer】

Ah I think it's very important .

【ask】

It can be expanded .

【answer】

For example, you mentioned before that there are two types of technical documents, one is for ordinary users, and the other is for developers. One is that we will definitely encounter some unfamiliar technologies or unfamiliar software during the development process, so in this case, the technical documentation for ordinary users is very important, it can help us quickly The learning of this is how it is used and the basic principle of what it is. In addition, there is the kind of development document we write during the development process , which can greatly improve the communication efficiency of the entire team , that is, it will not make some people in the team too busy and some people too idle. In other words, the things you made didn't match up in the end , just like there was a picture on the Internet before .

【ask】

Well, in addition to the internal communication within the team, do you think the document itself is important to your learning itself ?

【answer】

Well, it is very important. For example, when we are learning a new software, the best solution is to read the official documents directly . If the language of the official documents is not familiar, we may only go online to find some official documents that others have read. Some summaries of documents and the like, so this official one is still very important, whether I can understand it or not .

【ask】

Understood, and then I want you to recall the types of documents you have used. You can recall the materials you have used, such as the technical blogs I mentioned just now. In fact, they can also be classified as a type of documents, then you Recall the types of documentation you used during your studies and development.

【answer】

One of the first ones may be books , such as C ++, Python, which are huge tutorials and teaching materials. In addition to the teaching materials, there are also some videos on the b station. I prefer to watch them because they are easy to understand. In addition to this, there are also some online technical blogs, csdn or some personal websites written by the students themselves . The words here are not so systematic. Most of them are personal summaries. In addition, there are some software manuals. The ones in pure English will be a little more, that is, some manuals given by the software , and our GitHub When reading some open source codes on the Internet, there is usually an md file, which will explain how to use this thing, what the interface is like, and what the principle is, basically that's it . There are also some papers, and there are usually some on the papers, such as what kind of experiments I have done in my paper, or sometimes it will explain what the principle of my experiment is , and what is the effect? of? How it is used is how the latecomers can implement it.

【ask】

There are a lot of materials and many ways to help you learn , right? Well, how do you usually find these materials and how do you find these documents?

【answer】

One is to ask the students if they have encountered similar problems before, ask them if they have written it on their website , go to the technical blogs of the students, and the other is to go directly to csdn , or directly to some technical blogs . Directly search for keywords, and then go to the software , look at the software, it usually has a help document, see if the small help is in Chinese , I usually can read Chinese , but I don’t read much in English, and then there are Go to station b to watch some, just search for keywords to watch videos .

【ask】

That would use a search engine to search for documents, wouldn't it?

【answer】

It certainly will .

【ask】

Well, for example, do you search for this official document through a search engine ?

【ask】

No , the official documents are generally through software , and there are some links, it will be faster to go directly through this channel .

【answer】

Well, I understand, then after you find a document, the documents you have read should be those with a lot of content, that is, how do you quickly find you after opening a document, for example Need information ?

【answer】

Well, generally it has an index in it, or if it is a large website without an index , just CTRL + F to search for the keyword I want to see where it is .

【ask】

This feels more efficient, right? Well, now I would like to ask you to recall the documents you have used, whether domestic or foreign, what do you think of their quality? You can give one or two examples to illustrate a good document. where, and then give a typical bad example , where is it bad.

【answer】

First of all, I may come into contact with Chinese documents more often, that is, some good quality ones , and poor quality ones, but the English documents that we can get access to are generally good, otherwise they will not be able to spread to China. Some of the poor Chinese documents that I have come into contact with are mostly incomplete series. For example, when I see this place, I want to read it again, and then I find that the author has stopped updating. This is a very bad phenomenon .

【ask】

Documentation is a series right?

【answer】

Yes, just some blogs , that's more of a case . Just on some tech blogs in China , this is a very common situation , that is, it stops writing halfway through .

【ask】

It is equivalent to incomplete content .

【answer】

Yes, and in addition to this, there are some special ones. Generally speaking, some software is in English . In some cases of English translation into Chinese, it is often difficult to understand or to understand the word order .

【ask】

quality of this translation is not good?

【answer】

translation quality is not good, and there are still some keywords that cannot be replaced by Chinese. Then the keyword page is represented in English , it seems that the entire Chinese document is in English. Well, then I might as well go directly to this case. When reading some English documents, the main problem is translation , translation, and the problem of incompleteness. There are many Chinese documents . Then, for English documents , I think all the documents I have come into contact with are well written. Although it is in English, it may be a language barrier for Chinese readers, but apart from the language barrier, there is no big problem. Because English documents are generally written more comprehensively, because they have already been sent to China, they are all comprehensive, and then if you translate them, you only need to make good use of translation software, which is actually acceptable.

【ask】

As far as you said, it's probably all about content, so do you think there are good and bad points in the overall organizational structure and organizational logic of the document ?

【answer】

Generally speaking, the main organizational structures of the documents I have come into contact with are divided into two types. One is the more comprehensive one, which is to summarize at the beginning, and then divide it into chapters after the summary, and then summarize it at the end. I think this is A good habit, this is a good behavior, it is very convenient for latecomers to consult, but it is also time-consuming to write .

【ask】

this refer to the document in English or Chinese?

【answer】

English , or even Chinese textbooks will do the same. In addition to this, there are also some summary documents. For example, I read this English document, or I read this textbook. I don't want latecomers to die like me and eat this thing, so I will write a summary content , which is also a technical document. I think if everyone has time, it is better to read the thicker, longer chapter-by-chapter description . , the summary document is suitable for short-term reference, but the content learned may not be so comprehensive.

【ask】

the Chinese documents you have read, such as the official documents , not technical blogs , but in the official documents, what are the good and bad points in terms of organizational structure ?

【ask】

Chinese official documents, um, I think the organizational structure of the document is actually similar to the organizational structure at home and abroad, because the organizational structure is a particularly good reference, even in Chinese, basically , for example , Chinese That big book of python , it is also a summary at the beginning, then it is explained in chapters, the important points are expounded in chapters, and finally , it is like this . I think this is very good, because I like it better, because the content of the study will be more comprehensive, and it is more convenient to consult, because there are chapters .

【ask】

Okay, I probably understood these questions, and then I thought about other things. The next step is to think about your expectations or expectations for technical documents , that is, from your own needs, you should probably still work as a programmer in the future, right? There are a lot of documents, so as the user itself , what kind of documents do you hope to use in the future, or what kind of documents do you think are good documents ?

【answer】

There are still two points for this. One is the kind of document for ordinary users. I hope it is easy to understand. For example, it is not so much in English . If so, I hope it can be more comprehensive. For example, it can be explained at the beginning, and it can be explained clearly about our software. For example, some main uses of this thing and what it can do, and then explain each small part in chapters. The function, or each small module, what it is , what it can do, and how it is implemented , I think it will be better to talk about it . If it is a developer-oriented document, such as the document I wrote when I developed the software myself , I hope it is the version, because every time we write a version of the software, we have to write such a document, so It will definitely encounter an iterative process. In the iterative process, I hope that each document can be compared with each other , it will be better, that is, to clearly write the difference between each version, then some interface names, and then some places that should be unified should be unified . Then I hope that it can be edited by multiple people , but it is necessary to write clearly who wrote which one, so as to facilitate follow-up traceability. If it is a developer-oriented document, I think it must be an administrator to maintain it first. Then everyone is responsible for which module, the division of responsibilities should be clear enough, and clear enough, and then who wrote which piece of content should be clearly divided, and then finally determined, for example, the front-end and back-end should make sure that this interface is unified, At this time, it is necessary to carry out normative unification. I think the main problem of developer-oriented documentation is to be responsible for the specification. It can't be written in a mess .

【ask】

The specification refers to the specification from the language and the content itself, as well as the specification from the process management ?

【answer】

Yes, even the structural specification, or the naming specification, or my module, for example, I am responsible for writing this module, and then where should I start writing this module, what is the principle, what is the interface name , yes When to carry out, when to complete, and when to test , these all require a modular, standardized management, I think .

【ask】

Well, what you mentioned is the developer's document used for internal communication , that is to say, it is used internally, not publicly . Then if it is for the kind of official documents that are open to the public, for example, it has an official website and a document center, and then I use it as a product , such as some cloud products , I can view it by clicking on the document center. Do you think there are any suggestions for improvement of the documents that are publicly available to the public ?

【answer】

That is, it must be written comprehensively, because I have also read some documents published by XX Cloud and XX Cloud . I think some of their content is not very comprehensive. For some pure white people, it is not very understandable. What they do, so one is to write comprehensively , you can't say this paragraph , I think you should understand, that is to treat the user as a pure white person, you can't say this paragraph I think You can understand I will not explain, but in fact users do not understand .

【ask】

Do you mean to explain the principle behind it and the ins and outs ?

【answer】

, for example, some keywords are written, and some people are easy to understand, or the principle behind it , or how this step is done . For example, the content of some documents, it may teach you what environment to configure, and it suddenly says, at this time, you have configured the X XX environment, but at this time users often do not understand, they do not understand you what does this mean .

【ask】

Yes , you also mentioned that you have read the documents of cloud products of these big manufacturers. Do you think there are other problems besides this content is not detailed and comprehensive enough ?

【answer】

Well, another problem is that I have seen some of those documents in the big factory before, and another problem is that I don't think it has been explained in principle, for example, some of its documents are written too white. , for example, it tells you directly, I said this sentence, then we will copy this sentence into this text box, and then press the line break, but I think reading this document is for us It doesn't help that we don't learn anything by reading this kind of documentation because you just told me to just copy this sentence in and I don't know why copy this sentence, ah, we're next What are we going to do and what we are doing in this step, so I think this aspect can also be clearly written . It is to explain the principle , why it does this, and explain it clearly .

【ask】

So what do you think of their organizational structure? Or is it similar to those abroad ?

【answer】

similar to some foreign ones, because the organizational structure is basically realized through a total score structure .

【ask】

Well understand, and then the next question is to think , you mentioned just now that you actually write developer documentation, right ? Oh, then you can roughly expand and talk about what kind of document you wrote, who is it for, and what content does that document contain ?

【answer】

Well, I have written a lot of documents . One is that as an administrator, I am in charge of management and development of this software. For example, it is a small project in the school. I am the captain, and I want to manage this as an administrator. Development documents, for example, I will first write what time and what version we are at the beginning, what is the difference with the later version, what is the difference with the previous version, what is our main function, and then put those The functions are listed separately , and the students who are responsible for this module are invited to write them. Then I will set some standards in advance and some formats to be written . For example, when we write this small function, what is the purpose of writing this function at the beginning? Use, and then write the interface name, write the time, and then write who is responsible for this matter , who is responsible for testing , who is responsible for development, and who is responsible for operation , and then write the time. Then write the principle. For example, I will set such a specification in advance . How do we write it so that it will be more convenient for others. This is to manage this development document from the perspective of an administrator . Then I am a participant. For example, I have some competitions before. During the competition, in order to facilitate the communication within the group, we will be responsible for writing some documents, such as my question, what is my question? Ah, which one did I do, can I still do it, do I need to ask someone for help, and what point am I doing now, where am I stuck, I just get what is the result . In this case, the classmates who are responsible for managing this document in advance will set it in advance , that is , he has set a form for us, we can just fill it out directly , and then in addition to this, there is also JD.com, which was written during the internship . Some technical documents, in this case, the product manager will pre-determine, or the development boss will pre -determine what our specification is , how to write it, and give us a form, we just put some interface names, and then we are responsible for The time , who is in charge of this matter, and whether or not to apply for joint adjustment or not, write it down , and just fill it out .

【ask】

Then this reader is usually an internal team , and the classmates pass it on to each other, right ?

【answer】

Well, these are all viewed by internal students , mainly to improve the efficiency of communication .

【ask】

Well, do you think there are any difficulties in the process of writing documentation ? Did you encounter any difficulties ?

【answer】

Well, in the process of writing the document , from the perspective of the participants, well, for example, the person in charge of management has already set the format specification, and writing this document from the perspective of the participants is not too big. The difficulty may be some summary knowledge , and the summary content will be more difficult to write, but if you are responsible for managing this development document, you need to consider many aspects, for example, how do I design this thing, How to design my structure, how to design each small function and its specification, this is more important, that is, the design should be reasonable, it should be easy to read, and then where should I put this document, should it be all Anyone can edit it, and this is what it should consider .

【ask】

One is the design of the content structure of the document itself, and the other is the rights management of the document . Is there any difficulty in the language organization of the document itself ?

【answer】

Well, the organization may be more difficult to write because of some summary words, but I don’t think this is a big problem, after all, it is all internal communication, and there are actually no high requirements for the language itself .

【ask】

Then I just want to know, does the document you read provide that kind of feedback? For example, you found a certain document it has some problems, and then you found it has a place to provide feedback ?

【answer】

Most of them are, but I think this feedback content is actually not very good feedback, because most of them are to leave you a phone number or leave you an email, saying that if you have any questions, you can contact here , and then I If you encounter a small part of it, it is better. For example, it is a software that will give you a website. If you have any problems, you can go to this website as a visitor or a lander. From the user 's point of view, write on this website. One comment is enough, I think this one is better . But most of the things I have encountered are to leave an email for you, but in fact, Chinese people don't have much habit of sending emails . Not left , not too many people will use, not much sense .

【ask】

Then if you have a website or community that is equivalent to giving you opinions , will you give it opinions?

【answer】

In most cases, it will, because it also helps latecomers to read easily . As for the pits that I have stepped on, I may not want people behind to encounter them again .

【ask】

Well, so you give it one of the comments to make it improve the quality of the document itself, and the other is to make it easier for people behind to avoid the problems you have encountered, right ?

【answer】

Well, in addition to this, there is another reason, that is, the system of Microsoft windows will give a bounty. I have classmates who often do this kind of thing, such as my website, or my windows , I have a senior , he is more powerful. He dug a hole in Microsoft, dug a bug in Microsoft, and then reported the bug, and then Microsoft finally gave him a reward of 8,000 US dollars .

【ask】

Wow, so high.

【answer】

So there are special bug hunters. I don’t know what their specialties are called. I remember what hunters they are. I can’t remember the professional names. Anyway, they are specializing in digging holes, that is, digging for any other vulnerabilities in your website, and then feedback Go up , and then I will give you a reward , but this kind of domestic is relatively rare, and foreign companies generally give it . This kind of thing is not encouraged in China , but it is very encouraged abroad .

【ask】

Is this kind of loophole digging achieved through technical means ?

【answer】

achieved through technical means .

【ask】

Understood, this may be the need for relatively high-tech people to find out .

【answer】

Yes , the same is true for this kind of person, but less domestically , it is also a driving force for our work, and this motivation is the bonus given.

【ask】

That is to assume that there is a situation that it will be in the future documents, not only to leave an email, but it may provide you with a feedback channel, for example, there is such a website you mentioned just now that you can give it comments , or have a form where you can submit that form if you have any questions, and if that's the case, do you think you'd like to comment on it? If there is a problem .

【ask】

Well, this is also the score. We usually know that when we uninstall software, we often encounter this form. In most cases, I am not happy to mention it, because I have uninstalled it . But if it is those websites that I often use, I am still very willing, that is, for example, I use some BS or some very important compilers, I am very happy to give it this opinion, because I will mention it later Their opinions may be adopted, and we can use them in the future.

【ask】

For those that will no longer be used in the future, you uninstall it, maybe you think you don't need it or it 's really bad, and you don't want to give it advice . If it will be used in the future and will continue to be used, you are still willing to give it suggestions and make it better, right?

【answer】

right.

【ask】

Well, I have a good understanding of it, I will think about whether there are other problems. It seems that there are no other problems, so let's go here today.