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【ask】

, let's start now. First of all, I want to know your basic information. You can briefly talk about your professional background and the development experience you have done . When did it start, probably a few years of development.

【answer】

My undergraduate is X X , and I am a X X major in X X College . When I was an undergraduate, I was exposed to programming when I was in my junior year. Programming in C ++ was a program for satellite positioning. That was my first contact, and I wanted to make a relatively large design. Later, I crossed the exam and got into the XX major of XX University, XX College , and then the first project I came into contact with during my first year of research was to do something to grab a dormitory, which should be considered a spike system . Later, I participated in a small program competition with several classmates , and made an application of a small program. During the period, I also did some other course projects, and then I don't think it is very practical, so I won't mention it .

【ask】

Well, that's probably how many years of development work I've done, both inside and outside the school.

【answer】

It may be more than a year when it is full .

【ask】

Then you can give an example, you have learned a new technology or a new tool or software recently or before , and then you can describe what your learning process is like, try to describe as detailed as possible , you can say Say, from the moment you hear about this tool to when you learn how to actually use it, to complete a certain task , the realization of a certain function, or the completion of a certain project, you can roughly tell what the specific process is. kind of.

【answer】

Let’s take this XX applet as an example, we made a XX applet, and this was mentioned by the teacher in a class in March, and then it was developed by the XX team, so it is There are very detailed development documents , that is, it will give you examples and demos , you can open it directly in the developer tool it gives , you can click , you can view various details, and you can see its various effect display. It is through its kind of development documents, and then it also provides some forums on it. For example, the problems you encounter can also be found there, which are more detailed. Then there are teachers who also took us to make a few small examples in class . Then , start preparing from mid-May, and then complete the entire project until almost July .

【ask】

Can you be specific about how you use this document in this process . Because you may not know how to do development at first, and then you mentioned that it has development documentation, you can tell in detail how you use it.

【answer】

It has a search tool. You can search for other people's problems if you click search directly . For example, I want to see the options of that button. Then I type button directly on it, and I can see it explaining how the button is used. Yes, and then we can also see these things raised by others about this button , which are all kinds of problems.

【ask】

Well, oh, this is when you encounter difficulties, so should you learn from this document before you start developing?

【answer】

At the beginning, the teacher taught a few lessons , but it didn't talk much. Then when I was going to do it, I found that I didn't know much about the layout. Then I went to read it again and found it on station b. For a class, I just looked at it roughly, followed it and typed the code, and then the developer documentation was just a tool for me, I didn't need to read it from the beginning, I just needed to use it, It doesn't feel very detailed. It has some usages of its own. I don't know how the functions in it are used , that is, how the interface is called. Then I will take a look.

【ask】

So in the process of your learning, the main role is actually the teacher's explanation in class, and some of the tutorials you see on the video website, right?

【answer】

Yes, it gave me a general framework in the early stage, so that I have a relatively basic understanding of it, what are those given files for, such as wsx , whxml , what are these things used for . Well, if I go to this document directly, I guess I don't know what it means , but because of the videos I watched earlier, or the teacher's explanation, then I will explain the whole of it. The file has an understanding. I knew that the style was written in this, and the overall layout of it was written in it. I understood, and the rest were all response functions . After these understandings, I read this document more handy.

【ask】

Do you think documentation plays an important role in development work? What is the role of documentation ? Or what role do you play ?

【answer】

When I was learning English, the function of the English dictionary was the same. Use it to look up examples .

【ask】

The role of the documentation is just to look up some examples , to look up some knowledge points when you encounter problems, right?

【answer】

Well, if you are not very detailed about its usage, you can check this document. I don't read it as a textbook, I say I usually treat it as a dictionary .

【ask】

I understand, what do you do when you encounter problems during the development process? Do you ask others or do you solve it yourself?

【answer】

I think this is asking someone else , and when I'm doing these things, I don't know who to ask. If you want to ask a teacher, you have to wait a week before you can meet the teacher, so you always check online to see if there is a corresponding blog, look at its official website, it also has a forum, and then look for it on the forum. I have the same problem .

【ask】

What's the official website, the official website of the tool you use ?

【answer】

right.

【ask】

Are you referring to looking at its official documentation?

【answer】

Take that small program as an example, it gave it a forum, um, and then there are various kinds of questions on this forum. If you ask some questions, its XX team will answer you .

【ask】

Well, it is equivalent to a Q & A , which is a forum for questions and answers. It's mainly to search for other people's answers by yourself or to find answers on the official Q&A forum, right?

【answer】

For graduate students, there is basically no one who can ask specific questions.

【ask】

What types of documents do you usually use? Except for the official documentation. In addition to the technical blog you searched for, is there any other useful information?

【answer】

Use other information ?

【ask】

Well, in your learning process, in your development process .

【answer】

There are also design documents. Well, the project I did when I was working was a map conversion project. It has an overall design document . Well, I am working on roads, so I can check it at the beginning. How to design this system, how to design this function . When I was about to start the project quickly, I read the design document for a long time, facing the design document, and then looked at the specific implementation inside.

【ask】

Apart from these, are there any others?

【answer】

Textbooks and Videos .

【ask】

The textbooks refer to some official paper textbooks, right?

【answer】

right.

【ask】

Well, the video is just some demonstration video, explanation video?

【answer】

Yes, video explaining.

【ask】

Other than that ?

【answer】

there is none left.

【ask】

OK, so how do you usually find the documents you need?

【answer】

Search directly on Baidu or Google .

【ask】

there any other way besides searching ?

【answer】

Well, if there are other ways , like when I was in my company, my leader would directly give me these documents and let me learn by myself, and then when I was in the lab, when I took over the project, the teacher would also Show me the documents , the reports of the work they do. Then if you don't understand other things, you may have to search for the corresponding textbooks, videos, etc., and find them yourself.

【ask】

Well, mostly through search engines . Understood, after finding a document, after you open it, how do you generally read it?

【answer】

I search for keywords, but I don't read through , I just look at the key parts that I want to know .

【ask】

Well, after opening it, you won't take a general look , and you will directly search for the part you care about with a strong purpose ? Search is it has to provide internal do engine is it?

【answer】

No , there is a search thing directly on its web page .

【ask】

then use CTRL + F ?

【answer】

right.

【ask】

Well, got it. Have you read some foreign documents?

【answer】

Foreign documents , yes , recently in learning computer graphics , I need to use open GL and a library of CGL. These are foreign, and they are all relatively old things . Both of these are direct-to-read documents in English .

【ask】

there anything more than that? For example, when you are learning some programming languages, do you see their documentation ? Or do you read documentation when learning certain frameworks ?

【answer】

For programming languages, I think it is better to read textbooks . When I use these specific libraries , I will read the documents written by their developers, whether they are in Chinese or foreign languages, um , which they wrote themselves .

【ask】

Oh, so what do you think of the quality of these documents? You can give one or two more typical examples, give an example of a well-written document, and then talk about how it is good, talk about its characteristics, and then give an example of a poorly written document, and then Tell me what's wrong with it.

【answer】

Well, I think rabbitmq is better written, which is the rabbitmq that was used when I made the seckill system before . The better part of what it does is that , in many languages , whether you use PHP or Go , it will provide some examples , and then its documents are relatively new, you just You can use the demo it provides directly . Then I think that C GL may be the one I have poor contact with now, and I feel that its threshold is quite high. That is , I can't understand it directly by reading the document . I have to read other people's blogs and blogs after they understand them. I can understand them only by reading their blogs .

【ask】

You said that the threshold is high because the knowledge point itself is difficult and you don't understand it well, or is it difficult to speak its language ?

【answer】

Its language is still written in the C ++ part, but I think it is not for people like me who have no foundation in graphics, it is for, by default, you already have a lot of such knowledge reserves, and then You only need to use their stuff, the stuff written in it is deeper, and then you go to see it directly, and then it is messy and the stuff is relatively old . It told you how to use this library before, and if you use it according to this, you will not get the result in the end.

【ask】

out ?

【answer】

I said that its stuff is relatively old, and that document has not been updated for a long time.

【ask】

If the documentation is not updated, the documentation cannot keep up with the software or the documentation does not match the environment, right?

【answer】

right.

【ask】

Then you said that it was not set for beginners, and the knowledge points it gave at the beginning were very esoteric, right?

【answer】

Yes, and then it was written in a mess, without a deep logic in it .

【ask】

The structure is messy .

【answer】

right.

【ask】

Its structure is not from shallow to deep, but some difficult knowledge points at the beginning ?

【answer】

It seems to be a private one, an open source one , so anyone can add it, so it may cause the things in it to be messy.

【ask】

Isn't it an official document?

【answer】

It is officially issued, but others can also add things to it .

【ask】

This may be due to the fact that too many people have added it, resulting in its poor quality . Well, these are all examples of foreign documents , so can you think of examples of poor domestic documents ? Or better.

【answer】

The most used one in China is probably the C SDN forum . Well, the biggest problem with this forum is that there are many repetitive things , that is, copying other people's blogs directly , some even translating the external ones, and some even directly It is copied and pasted , and it feels that the quality is mixed. So if you want to search, it will take a lot of time, that is, you have to keep clicking and opening to see if it is what you want .

【ask】

Oh, so have you ever written technical documentation yourself? Can you expand on that?

【answer】

What I wrote should be relatively simple, because I used to brush questions on leetcode , and then brushed the questions that I thought were more interesting, and then I didn't think of it all of a sudden, and then I wrote a blog for the things I thought of later . Save it and make this kind of mark by category .

【ask】

Write a blog, will you publish this blog later ?

【answer】

Generally not published, it is equivalent to a note saved internally .

【ask】

So your purpose in writing this document is to record your own learning, and your thinking process , right ?

【answer】

right.

【ask】

In addition to this kind of blog, personal blog , have you written other types of technical documents?

【answer】

Hmm, I don't know if the ones written in class count?

【ask】

You can talk about it.

【answer】

That is, when writing the seckill system , the teacher also asked to write, the overall function of the system must be clearly written , and then the problems encountered, some improvement points, is how to make the speed of the seckill system faster. These technical points , and how to ensure the security of the interface, just these points, and then the teacher asked to write clearly , I think this document has been done for a long time .

【ask】

Well, what did you find difficult when writing this document? What difficulties do you encounter?

【answer】

Because the system was developed first , and the document was written later , so what kind of improvements I made to the system at that time, what kind of improvement, when I wrote the document, I couldn't recall a bit.

【ask】

This is a difficult point. Are there any other difficulties ? Do you think there is any difficulty in this content? written content.

【answer】

Oh oh, maybe I just didn't use the words very accurately. Because my programming exposure is relatively small, and these are all wild ways , self-taught, so maybe when writing documents, the words are more casual, and there is no very accurate wording.

【ask】

Then you can imagine a better state , that is, there is a document you like to use, it can meet all your needs, then what kind of document do you think this document should be, or what do you think This kind of document is considered a good document. You can list a few points, list a few dimensions, and then expand on it.

【answer】

First of all, it must be ensured that it is updated with the software released at the same time. It cannot be said that the software is obtained first, and then the documentation is written. Hmm, so I think at this point it has to be guaranteed to be updated in real time, hmm. The second point is that it is best to be compatible with multiple languages. It may be that some SDKs or something may only support a certain type. I mean, it needs to be compatible. It may have to use these available on the market. Languages are also compatible.

【ask】

You are talking about this document, it should be compatible with multiple programming languages ?

【answer】

Yes, if it is compatible with all kinds of software when it is set, it is best to write this document clearly .

【ask】

Well, it means that this document is going to provide different versions of the document for different programming languages, right? version of the description .

【answer】

There are not necessarily multiple versions. For example , if it supports C ++, if it is not written clearly, I feel that this is very uncomfortable .

【ask】

That is, which language is supported by this software, it should be clearly stated in the documentation, right? Oh, what about point 3 ?

【answer】

The third point is that the code demo it gives is better.

【ask】

What is better?

【answer】

First of all, it is easy to understand, and then there is no problem in usage, and you can use it directly.

【ask】

there any others ? For example, structurally, do you think the documentation needs to be improved? Or is the document you encountered, its structure is better ?

【answer】

I generally don't pay much attention to its structure, and the worst structure I've noticed is probably the C GL document I mentioned earlier .

【ask】

Well, what about the arrangement of this content ? You say there's a doc, it's hard to read at first.

I think a document, it is for beginners, there is for the kind of in-depth developers, do you think this is good?

【answer】

Yes, of course it would be nice if it could be done, maybe for them , it would take more time for them to have two versions .

【ask】

Well, it may not be divided into two versions. It may be from the shallow to the deep, and the content from the shallow to the deep. For example, some documents will not give you many specific examples at the beginning. It will have a getting started, I will teach you how to install, how to start, how to start a project, and then give you some relatively simple examples to let you be familiar with the framework logic of this tool, etc. Later, when you use more complex functions, it will Subsequent chapters also expand accordingly.

【answer】

Well, I have also encountered this kind of structure framework, and the development document of open GL is like this. But I think one thing it does not do well is that although it has written both elementary and advanced tutorials , its elementary tutorials may be elementary for some people, but for others. It is also more difficult, and I think this division is also inaccurate. The difficulty of this content is actually more difficult to distinguish and more subjective .

【ask】

In addition, I want to ask about the language. Oh, you have read some foreign documents, and you find it difficult to read. Difficulty, mainly because of what?

【answer】

Mainly there are words.

【ask】

It's just an English language problem, right ?

【answer】

Yes, the meaning of some words in the dictionary may be different from the original meaning .

【ask】

Then you are the foreign documents that you have come into contact with. Is there a Chinese version ?

【answer】

Yes, it is the kind that the developer wrote and translated by himself .

【ask】

What do you think of the quality of this translated document?

【answer】

It's alright, that is, if you don't understand the Chinese, it will be much better if you go back and read the corresponding English .

【ask】

Well, do you want my future developer documentation to be available in different languages?

【answer】

to do.

【ask】

Okay , so let me ask you about your feedback on the docs, does the docs you've seen provide a way to provide feedback at the end of the docs or somewhere else in the docs ? For example, you have some comments for revisions to a certain part of this document, or if you have any questions about reading it yourself, is there a place to give you feedback ?

【answer】

No , haven't seen anything like this .

【ask】

Generally, many of the current documents will provide a contact information at the end .

【answer】

I haven't seen the contact information, but there will be a message in some places, but I see a lot of them are messages, and then no one responds.

【ask】

Oh, leaving a message is also a form of feedback.

【answer】

the message, isn't it a decoration?

【ask】

Oh, you have seen this kind of document, right ? Did you leave a message there ?

【answer】

No.

【ask】

Can you imagine the circumstances under which you would give feedback ?

【answer】

if it will communicate with me in time .

【ask】

As far as you have a timely response after your feedback, would you be willing to give it comments and feedback ? If no one responds after giving feedback, do you think it is better not to give feedback?

【answer】

right.

【ask】

If you want to give feedback, what prompted you to give feedback? What is the purpose of your feedback?

【answer】

Is to make this document better. It is to make it easier for those who read this document later to see.

【ask】

Ah, well, the last question I want to ask , because our research is aimed at Chinese developers, so we want to know about Chinese programmers, Chinese developers, their own perception of themselves, then you In China, as a programmer , what do you think are the differences between the programmer group and people in other majors and other occupations?

【answer】

May use the brain more .

【ask】

The brain is used more, that is, the type of work is a kind of high mental work.

【answer】

Yes, it means that you have to learn all kinds of new things all the time, and it will also require physical strength .

【ask】

You have to keep learning new knowledge, because the nature of the work you do requires you to keep learning new knowledge , right?

【answer】

right.

【ask】

Well, what about the learning habits of programmers, what do you think are the characteristics?

【answer】

Study habits require you to learn quickly. When something comes out , you must quickly understand it in general. It does not require a deep understanding. Then you must have a general understanding of the whole . Well, learn requires you to learn fast .

【ask】

That is, new things come out very quickly, so you should learn faster .

【answer】

Yes, so it is just a technology, you have to quickly understand it, and then after you understand it, you have to judge whether it is helpful to your current job.

【ask】

The way of learning, the way of learning?

【answer】

Generally like a computer , it will be in the corresponding forum or it will have its own website.

【ask】

There is a website that provides a platform for developers to learn, right?

【answer】

Yes, if a new thing is published, it is usually published on its own website, or it will publish a paper to the corresponding conference or journal.

【ask】

You can learn by looking at these official websites or reading papers . Well, do you study mainly by yourself?

【answer】

Mainly self-taught , most of the time self-taught.

【ask】

So what do you think are the characteristics, such as living habits, etc.? Living habits, work habits, and even personality.

【answer】

It may be a habit of sitting for a long time .

【ask】

sedentary lifestyle. Because the nature of work is to face the computer .

【answer】

There is also the kind that usually goes to bed late and wakes up late, because if you have one, if you suddenly have a solution to this problem, you don’t want to go to bed now and go to rest. You have to solve this problem completely. , you just go to rest . So it may lead to the habit of going to bed late and waking up late.

【ask】

What about character?

【answer】

There is nothing to discover about the character, and there are not too many characteristics .

【ask】

Good to understand , good our interview is coming to an end today, thank you.