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【ask】

OK, let's start now. The first is to let you introduce your professional background and your development experience. For example, you can say when you started developing and how long you have been developing.

【answer】

Let me first introduce my professional background. I am a major in X X direction of X X University X X College . The earliest project experience should come from course projects. The first project is the course project of the Java course, to do an online question judgment system, which is the first development experience. First, we need to implement the core functions, and then add the front end to this project, um, and then add some user management, such as registering, logging in, and logging out these additional functions . This is the first project to do . Later, when I participated in some competitions, I would do some data analysis projects. I also used a variety of data analysis tools, such as using Python , such as using r. Compared with course projects, these data analysis types of projects are different. The difficulty is a little simpler, mainly for the given data , more like data mining. For some data given by the organizer, you find some laws in it, and use these discovered laws to make a prediction on the unknown data, um, After that , the project manager is a scientific research project, as well as a graduation project internship project . One of the scientific research projects I participated in was mainly to contribute code to open source software. What I did was not actually a systematic project, but to fix some bugs and add some new functions on the basis of existing projects, which was more like maintaining a project. It is an internship now. In fact, the closer you are to the industry, the more difficult it is for your project to be a complete system project. Your task is to maintain some existing projects. This is what I'm doing now.

【ask】

That's more than two years of your development experience, right?

【answer】

you can say it this way.

【ask】

Then there are developments done in schools and projects done in companies.

【answer】

right.

【ask】

Well, well, then you can recall, what new tools or a new software or a new framework have you learned recently or before , and then you can briefly talk about the learning process, since you heard about this From the beginning of the tool and this framework , to learning it and completing some real development work, what this process is like, you can talk about it in detail.

【answer】

I can talk about a framework I used in my recent work, called A BP , which is a framework for developing websites in the C sharp language. This learning process is because I am familiar with the entire C The sharp language is not too familiar, so the first step is to learn the basic grammar of the language from the official website, and then read a few books, and then briefly introduce the characteristics of this language. Simple to master. How to judge that there is a simple mastery, that is, you can understand the code, and then you can write some code. When I have this ability, I start to look at the framework of A BP . I mainly look at the official documents given on the official website, and operate step by step according to its actual combat case. In order to make myself more proficient, I will type the sample code by hand to strengthen my memory. Then I work at a specific time. I haven't applied it to specific work projects, and I haven't had time yet, but I think I can already understand the code of this framework, and can understand some of its structure and usage.

【ask】

Then you can talk more specifically about the C sharp language on its official website. It should be its introduction document. What does its document look like? what are included.

【answer】

The easiest thing to start with is a hello A basic application of the world, teach you how to print information to the console, and then you should talk about the data structures of this language, including strings, numbers, and then talk about some of the language Logical structure, such as how to make judgments, how to loop, and finally some more advanced applications, such as how to do some more advanced functions in this language, such as network communication, such as multi-threading and so on.

【ask】

Then it will provide a lot of examples to teach you how to do it?

【answer】

It will provide examples, and the website document is doing a good job. It provides examples of that kind of interaction, that is, its own website provides you with a development environment. You enter the code on that webpage, click Run, and you can see the operation. The result, I feel very friendly.

【ask】

The following is to ask your understanding of technical Q&A, what role do you think the technical Q&A plays in the redevelopment process, and is it important?

【answer】

I think every developer must be exposed to various things that have not been exposed to during the development process, and I will not say that the things they are exposed to are what they have learned and seen in textbooks. When you are faced with a new tool and a new language, the most effective way is to look at the development documents written by their developers themselves. Because I think their developers will be more aware of the features of these languages, and then they will have rights, not to say they have rights. The documents they write are the most authoritative, detailed, and detailed. According to their development documentation, the fastest way to master this new language and new tools.

【ask】

So I think it is quite important for developers, and it is something that must be referenced.

【answer】

right. I have also seen some poorly written development documents, which will actually hinder the popularity of this tool among others. If everyone thinks this tool is very good, everyone will promote this tool and then develop new ones. When the reader comes over and finds that the document is poorly written, you don't know how to use it at all, which will actually hinder the popularity of this tool.

【ask】

The next question is what types of developer documentation have you used, and what else is there besides this official documentation?

【answer】

In terms of information, in addition to the official ones, some books will provide some online chapters for everyone to read. I think that it can be published as a book to prove its quality, but the difference between it and the development document of the official website is that it is often Lag, it is often published a few years ago, so it does not contain some of the latest features, yes, so this is the second textbook that I think can be referred to besides the official development documentation.

【ask】

So do you look at the documentation when you have a problem? What do you do when you have a problem?

【answer】

The first is to look at the documents, but the documents generally rarely contain solutions to some common problems, and then go to some websites, such as stack overflow, such as on GitHub, go to Google search, preferably in English, and then see how others solve these problems.

【ask】

Even when you encounter a problem, you will read this kind of technical blog and Q&A in the programmer community, right?

【answer】

Yep.

【ask】

So how did you find the technical documentation you needed? Mainly by searching?

【answer】

Yes, mainly through search, because before you use a language or a tool, you must download it, that is, find the official website to download. In fact, you can clearly distinguish which are the official websites and which are the derived websites. I will jump from the download page of the official website to its home page, because basically every tool will have a link to its documentation and documentation .

【ask】

Besides downloading directly from the official website or searching through a search engine, is there any other way to find the information you need?

【answer】

For example, some software has a built-in help, you can find some of its documents.

【ask】

you encountered something similar to this ?

【answer】

have the document that contains it directly in the tool .

【ask】

Well, how do you read these documents after you find them? It is possible that this document has a lot of content and is very long. How can you quickly find the information you need ?

【answer】

Because in general most documents have a getting start ted is a quick tutorial that allows people to quickly get started with this tool. Generally, just watch the quick tutorial to get started, and then continue to read. If the document is very complicated, you can start developing after reading this quick tutorial. , and then take a look at this detailed document when you encounter it.

【ask】

That is to say, after reading this getting After starting, you can basically start using it, but it's just stumbling, and then you will come back to read the documentation when you need to do in-depth work?

【answer】

Yeah that's right.

【ask】

Then you should have read some domestic or foreign documents, right? Can you give some examples then? You can give a more typical example, a good one, and then say what's good about him, and then give another one that you think is poorly written , and then say what's bad about it.

【answer】

Better documentation, such as the official development documentation of the python language, I think it is well written. In addition to introducing various usages of this language, this official document also contains a file called best The practice thing is the development guide. For example, how should you name the variable, how should the code style be done, are more detailed things that can guide your code development in more detail.

【ask】

Does it provide many examples?

【answer】

Yes, examples of detailed instructions.

【ask】

In addition to the content itself, how is the structure of this document organized?

【answer】

The document structure arrangement is also from the shallower to the deeper, and it also has this. For example, if you check the usage of a function, you can click to enter the source code of the function, so I think it is very convenient.

【ask】

So this document is the center of the documentation on the official website, right ? Does it have some interactive design that you prefer?

【answer】

It doesn't provide an interactive development tool, but it does, and I have the impression that some docs will provide a thought and discussion underneath for the reader to do, as well as a small task. For example, if it teaches you how to use it today, it will draw inferences from one case and let you try to complete a small task.

【ask】

Use what it taught you to try a small task, right?

【answer】

right.

【ask】

Is the python documentation you read in Chinese or English?

【answer】

English.

【ask】

Do you think there is a language barrier to reading?

【answer】

I think the words it uses are relatively simple and easy to understand. I don't think it's a big obstacle. You only need to master some common English words, and there are no uncommon words.

【ask】

I can read it, but how fast is it to read?

【answer】

Reading speed should be normal.

【ask】

Is it the level of normal English reading?

【answer】

It's a little faster than normal reading in English, because its vocabulary is really simple.

【ask】

So that's one point you like about it too.

【answer】

Yep.

【ask】

So can you give an example of a poorly written document? Both domestic and foreign.

【answer】

Poorly written, I can't think of specific examples, because you think the documentation is poorly written and you may not use it, and its name may disappear from your mind.

【ask】

Then you can summarize some of the characteristics and commonalities of the relatively poor documents you have seen. Where is the difference, those points. The inadequacies of several poor documentation can be combined.

【answer】

maintenance time of the relatively poor documents is generally less. Generally, it is a document from several years ago, or five, six, seven or eight years ago . It is never modified, and it is placed there consistently. No matter how iterates on your tool , it That document just hasn't been moved. There is also a newly developed tool, and its documentation may not be written in time, and then it is put on the incomplete documentation. I think their not being maintained long enough is a characteristic of poor documentation. The second point is that the sentences are not smooth. Some foreign documents will provide Chinese versions. I also like to read Chinese versions. Because we are Chinese, it is definitely more convenient to read Chinese, but the Chinese versions it provides are not even as good as You read the original Chinese text directly, it may be translated by machine or by someone who is not very good at translation, so Chinese looks very difficult to understand. I think it's better not to have this translation. It may prompt you incorrectly, this is the second feature. That's all I can think of for now.

【ask】

These few features have become some bad points that prevent you from continuing to watch it, right?

【answer】

Yes, I think the outdated document is especially excessive. You follow the tutorial of its document step by step, and you find that the result of it can't come out by yourself, because its document is old and has no Updating in time, so it's very misleading and you get frustrated. I have followed it step by step, but I still can't get results. I have to revise it step by step, find mistakes, and correct them.

【ask】

The following one is about this feedback evaluation of the documentation. Have you ever seen this kind of documentation, one at the bottom or somewhere that gives you a path to feedback, like it asks you if this helps you? Or do you like it or not, or do you have any opinions, think there is something wrong with such a way to provide feedback to the author of the document, have you seen this ?

【answer】

I have seen it, there are two ways, the first is under the document, there is a comment area under each page of the document, you can send your own questions, and then the author will answer the questions . The second type is an open source document. It has a link on GitHub directly on each page of the document . You can click on it and you can ask questions in his GitHub repository, and the author will also answer questions when he sees it .

【ask】

asking questions by posting an issue ?

【answer】

Yes, you can also do it yourself, you think this document is not well written enough, oh, I think the advantage of open source is that readers think this is not good enough, it may modify, contribute , and contribute code to this document .

【ask】

Then you made a comment again. Have you made an opinion?

【answer】

Yes, I have commented because this document is too old, as I just mentioned, I did not get the expected result according to the steps of the document, so I will leave me on GitHub or in the comment area own questions .

【ask】

Well, the main purpose of your comments is to help him improve the quality ?

【answer】

Well, yes , it also allows me to use this tool better .

【ask】

Hmm, I understand, have you written technical documents yourself?

【answer】

I have written part of the documentation myself, only the documentation that I have done .

【ask】

this document intended for?

【answer】

's for developers , and it's for people who use it .

【ask】

Is it someone from the same project team ?

【answer】

In fact, it is mainly for people who use it, and it is also for people in the same project team, otherwise they don't know how to use the thing you make .

【ask】

Well, can you give an overview of what this document you 've written contains ?

【answer】

I usually write a small part of a tool. First, I will write the name of the tool, and then put the logo. Then in the first part, I will write some technologies we use for development, such as using Python , such as using The front-end uses flash , the back- end uses what, and then the second part will write this environment, which is how our development environment should be installed. That is, what kind of environment should our tool run in, such as the version number of python is 3 or 2 , such as the version number of each tool, such as the system, we can only use it under the Linux system, not under the Windows system . In the third part, I will briefly introduce some methods of using this tool, including some of its parameters, how you can adjust it to achieve what purpose . Generally, there are three steps . Other developers should be able to complete one. Well, they should be able to use this tool . Then in step 4 , if I wrote it in detail at the time, I would put some more advanced usages. If the writing time was short and urgent, I would put some screenshots of the use, and finally put some copyrights Information, such as who owns the copyright of this tool, which protocol is used to open source this tool , and if you want to commercialize this tool, you should contact us first .

【ask】

difficulties when writing this document ? Or is the writing process easier ?

【answer】

Well, if it's my personal project to write documents , I'm actually very comfortable, I can write in any style, if you write documents for other people's projects, you must first refer to the styles of other documents in other people's projects, otherwise you write If the documentation is unique , it will be very abrupt. You have to refer to the style of other projects, and then you have to refer to it, because you are providing code and documentation for other people's repositories, and you also need to refer to other people's opinions, and some are strict. If you are a company or a strict developer, he will give some opinions and then urge you to complete the iteration of this version. For example, I have written a document before, and the people who come to review the document will feel that this document is not written enough. For a novice , it seems that the steps are too advanced and should be written in more detail. Well, yes, I will add a lot of detailed steps, and I will explain each step, why do I do it this way, and then put it in the place where screenshots are used , and I will show you how to run this thing and make a A moving picture of the animation , so that it can be better explained to the novice .

【ask】

To sum up , one difficulty is that the style must be consistent, and the style must be unified, and the other is to take into account the reader. If the reader is a novice, it is necessary to take care that the novice may not be very familiar , and write as detailed as possible .

【answer】

right.

【ask】

Well, the next question is if there is such an ideal state that you can use a document of very good quality, what do you expect the document to look like? What advantages do you hope or say a good document for you should have? You can roughly summarize.

【answer】

Maybe I think this document can't be written too rigidly. In addition to teaching you how to use this tool, it is best to put some of your own thinking in the development process, some of your own philosophy, why this tool is good, and it's good Where is it and why do you use it? The addition of this kind of thing will make this document more human, not human, but more personal , and it will feel very friendly. What everyone learns is not only how to use this tool , you can also learn from your experience in the development process, in the development process, yes, that's it .

【ask】

Are you saying that you would like these things to be added to the official documentation, for example?

【answer】

Well, yes, it can be added, that is, for example, a function in your document , why do you want to add this function, and where the benefits of this function lie , you can also add some such content.

【ask】

That is to say, not only tell you how to do it, but also tell you how to do it, right?

【answer】

Yes, in this way, others can refer to you to develop this tool, and this method of this feature will also help developers grow .

【ask】

there anything else besides that?

【answer】

I think the sentences still need to be fluent. You can't. If you have multiple languages, you can't just use a simple machine translation . You'd better recruit a professional translator to translate, it's better to have a bilingual version, and then translate the bilingual version . quality is also guaranteed . Because I can understand the multilingual version, he must want to promote it to more readers , but if you stutter in translation, you will be more persuaded to quit .

【ask】

Well, I understand, what about structurally ?

【answer】

structure is from the simple to the deep, and then from the easy to the difficult . First of all, if you want to get started, you must introduce concepts, introduce some basic elements, introduce some data structures , and use them simply. I think a complete example and a demo that can be used within 10 minutes. In fact, I think it is necessary . Because it may be difficult for everyone to read the whole document from beginning to end , everyone wants to use it quickly and get started quickly, so you have to put a tutorial on getting started .

【ask】

Well, this tutorial is either a relatively simple text version , so if there is a video, would you like it?

【answer】

Of course video is the best .

【ask】

Hmm, is there anything else to add ? What do you expect from interaction design ?

【answer】

If you have the ability, it is also good to be able to do interactive design . What does interactive design refer to here ?

【ask】

For example, the code you just mentioned can be run directly, and it will give you a development environment to try to run some examples.

【answer】

This is of course the best, if you design some more, you don't give the code directly in the code box, let me click to run, you design some questions and let me fill in the code myself, and then run , if you pass, you will get some Feedback, that would be better .

【ask】

Do you think documents with examples or topics are better for learning, don't you?

【answer】

Yes, let me think for myself .

【ask】

Hmm, is there anything else to add?

【answer】

It would be better if the documentation could have the contact information of the developer community, because in addition to adding some e-mail addresses, e.g. mailing lists, e.g. XX groups, QQ groups, such as various communication apps , or have A separate place to ask questions may also be good for message boards , so that everyone can feedback their opinions . There is continuous maintenance , continuous update , the version should keep up, and then you need to make some changes for everyone's feedback .

【ask】

Any more ?

【answer】

there is none left.

【ask】

The last question may not have much to do with the document itself. Our research is aimed at Chinese developers, so we would like to know what Chinese developers think about themselves, that is, what do you think about being in China ? What are the characteristics of programmers and developers compared with people in other majors and other occupations? Where will it be different? From the perspective of work , from study , from the way of life, the way of thinking , etc. , we can talk about it in general.

【answer】

work, I feel that programmers at work actually love their work and the career of programming, but they are not used as a job to support their families. Most people really love typing code . I love programming , because apart from work, I feel that everyone is very open-minded in their spare time. They will fiddle with novel things and develop their own gadgets. For them, programming may not be a thing just for making money . It's a hobby that you can do for life .

【ask】

In terms of learning, do you need to learn new things often ?

【answer】

Well, this is indeed the case at work. Every time a new project comes over, the technology stack and problems encountered are completely new, and you have to learn new things in a fast time .

【ask】

Well, what about the way of learning ? What is it like ? What are the characteristics?

【answer】

The way of learning , technical documentation is the most common way. Most people encounter problems. In fact, they try to solve them by themselves. It is very rare to find friends on XX to ask them everywhere. Most people are Search the Internet by yourself, search by yourself, and solve these problems by yourself .

【ask】

Is it because it is more efficient ? Or are you accustomed to self-learning and relying on yourself ?

【answer】

Because the field of computer is very large, you may encounter problems that others have never encountered before, that is, if you find a peer , the probability that he / she encounters the same problems as you is relatively small, unless it is very common, you search on the Internet Maybe that range is larger, and the probability of encountering people with the same problem as you will be higher.

【ask】

Are there any others?

【answer】

there is none left.

【ask】

That concludes our interview today, thank you.