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【ask】

First of all, I would like to know about your professional background and your development experience. How long have you been working on development?

【answer】

Does it need to be specific to what type ? I may have written some courses in school, and then I went to X X for an internship in my senior year, and then I did algorithm development. I should have been 10 months from last November to now , 11 months, and then I did Algorithm -related development is almost like adding some other content to an algorithm framework that others already have .

【ask】

Then your professional background is computer science, which means that you have done related work in school, and then also did related work during the internship, right ? Good to understand , um, the second question is that our research is aimed at Chinese developers, and then we want to compare Chinese developers with those programmers and developers abroad, what is the difference between them Then I want to know, what do you think are the differences and characteristics of programmers in this group of programmers compared with other professionals in other professions ?

【answer】

don't understand the logic behind this question. The first and first half of the sentence is about the difference between Chinese programs and foreign programmers. The second half of the sentence is about the differences between Chinese programmers and other professions in China. What is the difference between these two sentences? Is it a logical relationship?

【ask】

There is no strong correlation , you can talk about it according to your own understanding, what you think of yourself as a programmer.

【answer】

It's too broad for me to describe .

【ask】

For example, how do you think your study habits are different from those of other occupations?

【answer】

Probably the big difference is self-study , most, um, mainly by self-study .

【ask】

And then do you think your, for example, the way you work or how you get along with people is different, or is there anything special about them among the programmers you've met ?

【answer】

Maybe I like the work from home model very much, but I don't go to work at all, just like my current model . Others may be relatively flat between superiors and subordinates, and there may be no resemblance to them, but it may be because I do not know other occupations very well. Well, in many scenarios , the subordinates can directly reject the instructions of the superiors in a euphemistic way. If its needs are unreasonable . .

【ask】

Well , I will probably ask these questions. Maybe you yourself think this question is rather abrupt , and it is not a good answer . Then the next question is to know about your development experience, that is, we want to know about you recently , not necessarily recently , that is, what new technology or new tools and new software you have learned before, you can For example, and then I hope you will talk about your entire learning process in detail. We hope you will talk about you from hearing about this new technology, this new software, to learning it , and then using it after learning it. Do your development, complete a project or complete the implementation of a function, what is the whole process like?

【answer】

Well , I started doing deep learning. I probably started to get in touch with deep learning in the first semester of my junior year or two years ago, but I was still in school at that time, and I was not very energetic, and then I started to learn about deep learning. First, look at the basics, for example, some online courses at Stanford, some online courses such as CS231 to understand the basic knowledge, and also read some books related to this statistical learning method , and then start writing code Now , I find it difficult to write code , I can't write it at all, and then I go to the Internet to check it. They all say that there are two frameworks, one is called tensorflow and the other is called pytorch . These two are very popular, and then I will try tensorflow first , and then I found that the static image was written and I could n't understand it, so it had a sub-library called Keras . Keras is a dynamic library. I feel that it is easier to write. Basically, I start writing with that one. Then I copied a method from the Internet, and then changed it line by line . It almost took 20 to 30 minutes to write a line and search it on Baidu . Write a line, then change it line by line , read line by line , and then there are senior Ph.D. seniors next to me to guide me, and then I started to enter the door and wrote the first small project, which may add up Just under 1000 . Then I went to Shangtang , and after Shangtang , I was on a big algorithm framework , that is, they built their own framework, and then I added a document layout analysis on it. Function. Well, but before I add it, I might want to know what their whole framework is doing, right, that's one of the things they don't do very well, that is, their documentation is almost 0. The entire tens of thousands of lines of code, its document has only one read me, and then almost collapsed after entering, and found that it could not do anything, only the framework , only two developers knew how to use it, and no one else knew how to use it . know how he uses it .

【ask】

By documentation you mean the documentation within the project team ?

【answer】

right. Well, then how to solve it? Then he told me like this, and then told me that this framework was copied from the Internet , I forgot which open source it was, it was a framework open sourced by Google , and then let me go to the document open sourced by Google , but it was really written very In detail, it is this interface, and in the file, the functions of each function are written in a relatively complete manner . Then I will first look at the Google one , I have read most of it, and then I can't understand a small part, because it is still a bit empty to read the documentation without reading the code, and then I will read the Google one. , when I don’t understand it, I just read the framework they wrote, and then I read about half of the code. I probably understand what he wants to do , so I can add it to it, but I still have a lot of code that I don’t understand . , I don't know what he's doing, it's just a state of ignorance, that is, if several people who develop on this framework leave, basically no one can understand him in this framework.

【ask】

Then can you specifically talk about the open source document of Google that you saw, what is it like? How do you use it ? The approximate structure and content, etc.

【answer】

Well, there is one in it , which is something like read me, tell me what this is for, what functions and features it has, and how to use it . Then after entering, there is a general overview of each of its main components, and then he will , this is more detailed, that is, an overview of each file, and each function in each file will be described in one sentence function, and then give a functional explanation to each variable of its interface , which is very detailed, one function by one function .

【ask】

Because you didn't have access to the relevant documents at the beginning , you said that the document inside your project is almost non- existent, almost zero, and then when you look at Google 's documentation, do you read it from the beginning? Most of you have seen it, right ? Well, well, is there anything else? Is there any other documentation besides looking at this google documentation ?

【answer】

, I once had a visual segmentation algorithm, and SenseTime already had this product , and it could be used internally, and then they had one inside , I forgot what platform it was, anyway, there was this webpage for technical documentation, Then his entire algorithm is used as a tool, and then there is a description on this webpage , that is, there are about 4 pages, and then the first page is an overview of him , just talk about its main functions, the second page is I gave each of them a table of performance under different parameters, and the third one gave the meaning of some of the more important parameters that he adjusted when adjusting the parameters . Fourth , I forgot what it was, um, when there was such a technical document , and it was very convenient for me to use it, I just said I was going to adjust the parameters. But it may be that its development document is not disclosed to the whole company. I also saw his development document. After reading the document, you can get started. You know that parameter adjustment is very convenient, and the result is done at once. out . But it also has no coverage, such as where the input and output files are placed. He doesn't tell people about these. People need to go to the code to see it, and the description of some variables is not complete . I feel that the problem is quite big, quite During the iterative development , the next version of the software may still use the previous version of the documentation .

【ask】

The document you mentioned is equivalent to the company's internal document, which has not been released to the outside world, but it is open to the company's developers, and you think its quality is also good and bad, right ?

【answer】

exactly.

【ask】

I probably understand, um, and then the next question is to know, um, your understanding of this document, do you think the document is important for development work? It is extremely important, can you expand on it in more detail ?

【answer】

Documentation is a work for the future , not for the present . Obviously, it may take more time to write a document than the development itself, but this work is to pave the way for the future, for example Scenarios that appear in the future, for example, I need to maintain him. After two months, I wrote the code, and I forgot what I wrote. At this time, there is a document that can help me recall quickly. This can be used Because of the difference in time of a person , it is used for memory recall , and it can also be used for, for example, after a colleague leaves, his document, um, if he does not leave a document , then basically the project he did He has to rely on another colleague to remember this for him , what is the function of each variable setting , and what is the sophistication of the overall architecture design . If he had left such a document before he left or when he was developing, it could save a lot of energy in this regard. What I just said may be a technical problem, I don't know if the requirements document is considered as the content of this interview.

【ask】

The requirements document counts if it is useful to your development work as well .

【answer】

During development work, in fact, I often ask my leaders for requirements documents, but they never give them because they can't explain their own requirements. Well, but I still think a good requirements document is very important. It is beneficial, because a good requirement document, to be more specific , may be the content of the output , whether it is a file or just a variable in memory. What map method or list method do I use for the variables in memory ? a tensor data The way of set , that is to say , he has not stipulated these, he will tell me, what should be input for input and what should be input for output, in fact, this is a very big drawback for development, I may do it well at first, Then tell me how the interface is over there. This kind of communication relies on oral communication, and there is absolutely no requirement document to be reliable. On the other hand, the requirement document also helps this person to put forward his requirements. To fulfill his own requirements , for example, he may say Let’s talk about the task, that is , I have already said that it is not rigorous , and it may not stand up to scrutiny , but when it is written into a document, it can force the person who raised the demand to think .

【ask】

I have roughly understood that the degree of importance you mentioned is mainly for the development process and after development , which is a matter for the future. Do you think it is useful for you before development? You may need to choose a technology or framework before development, so there are different options, and then you will choose according to the documentation ? Do you go to the documentation before choosing ?

【answer】

See what documentation ? All kinds of technical documents ?

【ask】

right.

【answer】

Well, it should be said that when I was writing the development document , it was reasonable. There is still one thing I can’t remember. I remember that when I was in school, I couldn’t write this first at the beginning, and I probably had to write this framework first. How to design, and then write the detailed development document, but I forgot the name of the previous one. Well, the situation you mentioned should be what documents need to be researched before writing the entire technical framework document? It is of course very important to investigate those documents, so that I can more correctly judge what technology I should use to achieve .

【ask】

I probably understand, but the next question is what will you do if you encounter problems during the development process? You can give some examples, bugs or something you don't understand, don't know how to write code, don't know how to make a function, this kind of problem .

【answer】

I usually find a way to solve it myself first, and I’m not too embarrassed to always bother others. Then if I think there is a problem with the framework, I usually ask the developer of the framework what it means when he designed a variable or a certain setting . .

【ask】

If you want to solve it yourself, how do you solve it? Will you go to the documentation ?

【answer】

Documents, no documents, only one document in total.

【ask】

That would be to go to Baidu search, right ? Search for other people 's previous answers.

【answer】

exactly.

【ask】

Have you ever encountered a situation where you solved the problem through the documentation ?

【answer】

I talked about the visual segmentation before, and I told you about the document inside the company. I have never been able to figure out whether the pixel is 0 for the background or 1 for the background or 255 for the background. I understood, and then I saw that the document said that 255 represents the background. When the code was implemented, I found that 0 was used as the background. After a long time, I couldn't figure it out, because his document is always better than that technology. I fell behind and finally asked a colleague who used this framework , and he told me that one of them represented the background.

【ask】

In fact, the document can't solve it, can it ?

【answer】

No, no, it's the documentation that explains it wrong, because the documentation hasn't kept up with technical development, and the version has n't kept up .

【ask】

So what types of documents do you usually use? You can list the types of documents you have used, the types of technical documents.

【answer】

Well, there should be two types, the first one is that when the product is released, there will be a page, and then this new page is written on this page , which is the segmentation algorithm just mentioned , and then it will be listed on the first page . This feature , how to install it, what functions it has, etc., and then the second part lists which parameters are adjusted. These are all such documents that are mainly beneficial to users on the surface . The second one is for developers, developers The documents used will record, for example, a function has a certain function, and then a certain interface has a certain meaning, and then what parts of the entire system architecture design will be . There are mainly two kinds of documents , one is for users and the other is for developers.

【ask】

So how do you usually find the technical documents you need? Just mentioned search, is there anything else besides search ?

【answer】

you ask someone, for example, if I want to buy a framework document, then I will directly ask him who is using this framework .

【ask】

You mean the people inside the company , right? Do they have such pdf documents readily available ?

【answer】

may be m d, or it may be on the web side, they will continuously update on a web page, and then let them share it with me.

【ask】

that you need , the kind of documents you need to solve the problem, is through search, right?

【answer】

Yes, basically any bug found by Baidu is a bug .

【ask】

Is the search engine used only Baidu?

【answer】

Baidu , Bing, Google all have them , so should Zhihu.

【ask】

You mentioned Zhihu, do you use those blogs ? In fact, in our classification, these technical blogs also have programmers and their communities , and the questions and answers here are also documents.

【answer】

Of course it will be used. Then I also use this kind of document a lot.

【ask】

Can you list some? domestic and foreign.

【answer】

The domestic one is like the csdn , there are also blog gardens and Zhihu , there are a lot of them, such as error reporting, and then it will have a series of solutions, and then there are various technical tutorials and the like, and then foreign countries In other words, the solution to bugs is mostly stack over flow. It can be solved mainly by reporting various bugs . Then think about what else, and GitHub should also count as one. Various bugs can be mentioned in GitHub issues. , and then there will be an answer from the owner of this GitHub repository . Well, this is considered in a broad sense , and that is Git lab , which is almost the same thing as GitHub . Maybe there are also abroad , but I didn't look carefully when I clicked the web page, including the one like the crawler war, I don't know if it is illegal, but there is one kind of it , that is, he will specifically look for that kind of programmer The blog interface , and then he used a crawler to pick this up, and then put it on his own website, and after it was crawled , the content was exactly the same except that the format might be slightly different, and then When you enter the website again, it will put some advertisements to attract people to click in, and then the content is indeed someone else 's blog, but it does not respect other people's copyrights, but you can indeed see how others solve the problem.

【ask】

Got it , is there anything else?

【answer】

Maybe Zhihu can be divided into Q&A and his column. The column is similar to a blog , and then Q&A is Q&A . In this way, a comment area like csdn can be regarded as a kind of document, and there will be some questions and answers . If it can be calculated , Bilibili should also be able to calculate it . It also has classes and the like, including myself. For example , how to use a certain programming software, how to debug such videos , it Although it is in the form of a video, you are also a question and answer , a kind of tutorial.

【ask】

Then you have read so many blogs, and you should also read this kind of official documentation . After reading so many documents , what do you think of their quality? We can divide it into domestic and foreign countries to discuss .

【answer】

This classification may be too broad for domestic and foreign countries .

【ask】

You can roughly talk about your own subjective understanding.

【answer】

I think foreign developers are right , at least for the documents I can see , that is, I can't deny that some domestic developers have documents and they refuse to release them. I can't consider this kind of deviation . It 's them, I only Looking at what they have released , I think big companies like Google, and big companies like Hugging Face , should still be listed. Such foreign companies, their open source documents , including code comments, are also It is also a kind of document . They have done much better than domestic companies for this kind of document, whether it is code comments or traditional documents . Basically, domestic companies only click on the document and write it down. There may be only hundreds of thousands of words in tens of thousands of lines of engineering documents . However , this document developed abroad may be comparable to the code in terms of word count , which is an order of magnitude in comparison . In this way, I feel that the domestic emphasis on documentation, including in industry and academia , has no documentation in academia. It can be said that basically a former senior has completed the development, and the next junior can only listen to what he has to say. He does not write comments or documents himself. Almost , there is no such kind of writing in the academic world . The habit of documentation , in the industry , as far as I see it , when it comes to people who do algorithms , it can only be said that in Shangtang , what I see is that documentation does not play a very important role in development. function, but rely on people as the information transmission medium, which is not a relatively healthy environment. In contrast, I don’t think that China has done well in foreign countries, but I have never done foreign work, and I don’t know what their attitude towards documents is in their work. I can only see what they put out .

【ask】

released documents, you think its overall quality is better than the domestic ones . Oh, then you can recall , just give one or two examples, um, give one or two examples of documents, and then you think it is better , one is better, the other is worse, the more typical kind Example, and then tell me what's good and bad about it?

【answer】

Well, for example, there is a company called Hugging Face. Hugging Face specializes in training a lot of other people , and he puts the transform series of models on his website and on his website, and then everyone else. You can download the model that others have trained through its website , and then for each signal model, his code , in fact, it will rewrite other people's code , in order to make This code becomes readable, and then it will add a lot of comments on it, and then give a document by itself, so that the person who downloads the code can carry out secondary development on it , and it is also convenient for them to read, um, It is equivalent to using his own company to do a public welfare thing, and then to facilitate others, which is to facilitate the secondary developers. For those who originally released this model , the released model has a more convenient way to know it .

【ask】

This document is equivalent to a document or code written by someone else, and then he borrowed it for secondary processing, is it not his original document ?

【answer】

Yes, his own originality is of course original . He may have written it by his own company, and then some others have written it, and then shared it with his company .

【ask】

the quality of his original part ?

【answer】

very high.

【ask】

You can talk about its content and its structure, which is good .

【answer】

The content is that he has some so-called self-development. In this way , someone else posted a certain paper, and then there is a warehouse with his own code , and then that kind of code is often written very well , not to mention bad , it is The whole unpublished thing is very unreadable . Then he will look at the code, then look at his thoughts, and then write it from the beginning to the end, and then he will have it when he writes it from the beginning to the end , there will be this, such as a python file, and then in the file I will write what each function does , and then there will be a sentence for each parameter it inputs to explain what it does, and then I will add a comment to the so-called part of the program that he thinks it is difficult to understand. Come to write, why did I write it like this , or he said it without understanding it himself, I don't know why I wrote it like this, but the original author did implement this method in this way . Then it is released in its entirety , and it is estimated that there will be a large document, and then a detailed description of what this does, what is the difference between me and the original author, and what improvements I have made based on him . Then I wrote a very, very detailed document to help users understand which modules I designed , so this project that has undergone secondary development is far more popular than the original author's .

【ask】

That is to say, it will be more detailed and comprehensive in terms of content, and the other is more readable. I understand , what has changed in terms of the organizational structure of this document ? A document, because it has a lot of content, he must have a certain logic in this design.

【answer】

Hmm, it may be more traditional, it is two levels , the first level is the drawing level, and the second level is the drawing file. I haven't seen anything too innovative, it's the more traditional way of arranging, but maybe what he did better is the comments between the codes . It's more to use comments instead of documents , because there are quite a few. Many open source software does not have a detailed description of each file, because it is not necessary. He already has a very detailed definition for each function and each street intersection in the code comments. If you write it again, to be honest, just put that It is not necessary to copy and paste it in the past . I think it is very good to replace the documentation with comments in the code.

【ask】

Can you think of an example of a relatively failed document ?

【answer】

What I did in SenseTime was a very failed document. Basically, developers just didn’t want to write documents, because their development was different from traditional development. Traditional development basically comes first. Others have requirements, and then there are requirements documents . , and then need to complete the architecture design, there are documents for the architecture design , and after that , there are more detailed development documents, and then there is such a process, which is called the waterfall model, which is developed at a level by level , but they Development is very casual, just casual , just start coding, and then add documents after coding . In fact, because there is no way for him to add this , he himself was not clear about his own needs before he wrote it, and the architecture design was also unclear. Basically, he copied a few files from others, and then adjusted them by himself . That 's fine, he doesn't have the condition to write a document. Then the document finally given is only one page, and then it has almost no reference value . Then when I wrote this, it brought a bad influence, and the people who did the follow-up development in the back no longer wanted to write the document, because my reason was that others didn't write it, why should I write it, I won't be successful Are you wronged ?

【ask】

You are talking about this kind of document inside the company, and then can you give an example of a public official document that can be directly accessed on the web page ? Badly done .

【answer】

too many. For example , in some articles published on IEEE , some of them will open source their own code. The open source is a project in GitHub , and then when the project is clicked, he will of course have an introduction to the project. For the introduction of this project , for example, I have read a paper written by someone else . If you want to check it, you can search it directly. It is in these papers , it should be said that in its open source code, it can be said that his document It's almost very short , just one page , and it's not helpful for me to do development. I basically read the code myself, so that I can understand his project. In fact, the quality of this document in most open source papers is very low, because It's all academia, and everyone doesn't leave much documentation.

【ask】

Well, then I just want to ask, when you are reading the document, you have already found the document, and then how can you quickly find the information you need. After opening this document, how to quickly find the information you need .

【answer】

Just CTRL + F. Just use his documentation editor to find the function.

【ask】

In addition to that, will you look at the navigation bar or something?

【answer】

, if it has a logical structure, of course, it can be checked through the logical structure .

【ask】

As far as the reading method you are most accustomed to is CTRL + F to search for keywords, and directly locate that place. Well, then the next question is have you written technical documentation? Where do you find the difficulty? You can give a concrete example.

【answer】

wrote it, let me think about it . The difficulty should be the lack of patience .

【ask】

If you are impatient, you are rejecting this thing from the beginning, right?

【answer】

Because how to say it is to do algorithm development, it is not a waterfall model like traditional development, that is, I know exactly what I should do, and then complete it step by step, and the development of these algorithms is a constant process The trial and error is that most of the code is useless , and will be modified or deleted later, it is the process of advancing in an exploration, the process of exploring and advancing, it is destined that it is difficult for him to be that kind Documents accompany code, that is, when I write some documents, write some code, write some documents , and write some code in parallel , it may indeed have to wait until they are all written. For example , I have already debugged them, which proves that this idea is still feasible I just went to write the document, and then writing the document at this time means that there is no immediate benefit for me, and it is more a long-term investment , but this investment may not necessarily return me, because I may have left at that time, just No patience.

【ask】

One is that this starting point is not very good , and there is no motivation to write documents. Then if you have to write it, when you actually write it, what do you think is difficult?

【answer】

difficulty is that this is a very labor-intensive thing, that is, it takes so much energy to write code to write documentation, because every function and every interface needs to be written clearly in great detail , which itself takes a lot of energy and time. It's hard, I think it's hard, absolutely hard .

【ask】

hard to describe this .

【answer】

Yes, if you want to write it accurately without ambiguity , it is very difficult, and this may be related to the school's training. In the school, I have basically never experienced how to develop a document that others can understand. This kind of training is done for the first time .

【ask】

Understand, then the last question, I want you to summarize what kind of document is a good document, that is, what kind of document you hope you expect to use in your future work, you can describe an idealized state .

【answer】

Maybe there are different perspectives , as a user or ?

【ask】

You can list a few points.

【answer】

As a user, I may want to see the state where the code version and the document version are aligned , and then when I write, I can not only see what I should do, but also which environment the project itself depends on, and how should I download it Installation, its function overview and its characteristics, and then and the effect it can achieve , a table overview , and then some of its adjustable parameters , and the range of adjustable parameters , whether it is discrete or continuous , hope to give a range . And there are often problems with this project, he will give a list of Q&A to give answers . Then I have to give the contact information of the current maintenance director of this project, so that I can contact him directly if I have any questions, that is, there is a way for feedback. The development of documents does have its difficulties, which may depend on the development mode. If it is like the waterfall model, it is to go down one level at a time. Of course, there are requirements documents, architecture design documents, and then to the bottom. Detailed development documents, and the first one has the second one , and the second one has the third one . Now think about the possibility that such agile development may not have so much dependence on the document itself. . For different development modes, the requirements or expectations for documentation cannot be mixed .

【ask】

Agile development is more commonly used now .

【answer】

Yes, it is more about random development , just random development, just hang up agile development for yourself .

【ask】

That is this kind of agile development, and his dependence on documentation is not very high .

【answer】

Not very high, sometimes there is no way to build a good document , maybe it is the whole, his entire development process iterates , it can only be given when the iteration reaches the end of a stage, so he will write a document specifically, In this way, it seems that it is not very easy to write documents during the development process . This may also be because others have not explored such a mechanism . I heard that there will be a mechanism such as code review in XX, which is the lower level . The code in the code needs to go through the superior . I don't know if the document needs to be reviewed by the superior before it can be merged into the code base like the code. No one is doing this work in SenseTime . no code The review mechanism is that if you add it, you will add it, no one will review your code, and then the document will also be added , if you don't add it, no one will care about you . They will use some code analysis tools , so-called The ones that automatically detect your code , but that's pretty much useless .

【ask】

In addition, what other points of documentation and design do you think are better ?

【answer】

I think a good document should be something that developers put a lot of energy into . In the end, it’s still a bit difficult, but it’s still a matter of people’s subjective consciousness. Documentation , some people are willing, and some people are not, so there is a difference between good documentation and bad documentation . Although I mentioned it just now, I think it will be difficult to write documents, but compared to writing code, it is really not that difficult , because everything is written , so it can’t be described, so it’s not too difficult. Possibly, yes, that means whether people have the will or the determination to keep a document during production . If there is determination, I think what to do may not be described very well. If it is complete , it must be complete. If you don’t have this determination, you will be foolish. If the document is not done well, the code development may be done well, but the document is not kept well. In the final analysis, it is determined by the will of the leader of the development team.

【ask】

Then you can say from the document itself , that is, some dimensions of the written document itself , how good it is. To what extent do you think it needs to be done to be considered a good document .

【answer】

That depends on what it looks like and what kind of documentation it is for people to answer that question .

【ask】

For example, it is for developers to see .

【answer】

answer for the developer should include , possibly an overview of the requirements, and then for the entire design framework, for example, give the framework diagram, and then give which major components , the functions of the components, and how they are coupled Yes , it can give something similar to a U ML diagram, and then give the function of each function at the specific code level , and then he inputs this, the type of input parameters, output parameters and what it represents . Another important thing is that you can , for example, add comments at the code level to explain why a certain part is designed in this way , otherwise others will not know when reading it, explain the principle clearly , even in details , you may It is one line, but one line is not easy for the viewer to understand, and some comments need to be added to explain why it is done . It is also possible that there needs to be a special person who has been here all the time . For example , this document is done on this project, and then this person is a living document and can answer some questions that are not covered by the document. question.

【ask】

You 're saying there's a way to get in touch, and then something like customer service to answer your questions, right?

【answer】

exactly.

【ask】

Are there any others? So what do you expect from the design ? Interaction Design . Yes, the interaction of question and answer, such as UI design , documents on the web page, it also pays attention to design.

【answer】

It may be similar to a PDF, just click on that directory when opening a pdf, then there will be such a jump structure as Chapter 1, Section 1, right , right . I think it's very useful just after reading it, so the interactive UI may be Q & A. For example , I raise an issue on GitHub , and then someone will answer it in a few days. I think this is also very good. Yes, because no matter how complete the document is, it is impossible for him to describe it , so he knows that all questions that users will use must be asked by someone as the last way to support the document .

【ask】

Then you have read foreign documents , do you think language is a problem? Read that kind of question and answer in English.

【answer】

Depends on the level of a user, there is no problem if the level is high, but there is a problem if the level is low .

【ask】

Do you think there is a problem?

【answer】

I don't think it's a big problem. Most of them can understand because his technical English is not that complicated .

【ask】

to the answers of the previous interviewers , that is, they all think that reading this kind of English document may not be a big problem.

【answer】

Yes, it may be clearer than Chinese , because the variable name itself is in English, so the correspondence between Chinese and English may be quite troublesome . But the reading speed will definitely be much slower .

【ask】

There is also the feedback you mentioned just now. Then we have a question. If there is a feedback button or a feedback box at the bottom of the document, are you willing to give him feedback? If you find a problem with this documentation, would you like to provide feedback ? So if this document is really badly written, how do you want to give feedback?

【answer】

Of course, would love to give feedback. Maybe if it 's not in the company, I might spit him a few words , but in fact, I usually don't do that. After all, what do you say , people are not in the company , they have no obligation to provide services for me, he is a A contribution to the open source community may be that he did not contribute well because of his level or economic reasons. Generally speaking , I will definitely criticize him in my heart , but I will not necessarily post it , because this is not a civilized developer. habit .

【ask】

Then you are still willing to evaluate and give feedback, right?

【answer】

Just if I don't feel good, I won't say it. If he has any questions or if he writes well, I will definitely give him a thumbs up and give him some compliments . If there are any questions, I will also ask directly. If he is still active, there are often questions and answers. words . If you feel bad, don't talk, just turn it off .

【ask】

So what factors prompted you to do this evaluation, to do this feedback, and what is your motivation ? Is it to hope it gets better and better ?

【answer】

Yes , because it is an open source community itself, and everyone is a part of it, then I can also enrich the content of this community through my encouragement or my questions, and encouragement can promote the release of my own content. people get a kind of spiritual motivation , so that he can embrace this open source community more and make this community better and better, and myself , I always use the things in this community, and I also want to contribute to him , maybe It has a very strong interest related to it, so of course I am also willing to praise him for the benefit of this community.

【ask】

That concludes our interview today.