1. **Introduction**

My name is Zhan Yu, I am 22 years old and I am from Hangzhou, Zhejiang Province. I am a junior student in the University of Wisconsin-Madison, majored in computer science. I have studied many programming languages like C, Java, Python and some core computer courses in the university. In my spare time, I have also learned some other programming languages and frameworks, such as JavaScript, Spring, mybatis and React. In addition, in order to make my technology better reflected in my projects, I also learned some middleware, such as Kafka, Elasticsearch, to improve my projects’ performance. In my sophomore summer term, that is, last May, I took an internship in Shangtang. Technically, I used java, SSM framework and other back-end technology stacks. The business requirements are related to enterprise information, so my major work is to make some features and applications that works for enterprise.

Then in November last year, I took my second internship in Bytedance. Technically, I used java and Spring framework as well, and I also had used Python and SQL to implement some services. To be specific, I mainly finished and improved some data services for advertising big data of non-China. After these two internships, I think I can have good adaptability and learning ability when working in a company, and I am also able to integrate into the working environment faster when I put into a new job.

1. **Why Company**

Because I know 公司名is a top world’s investment firm applying advanced financial science to equity and fixed income investment strategies. By employing a rigorous and systematic investment approach, 公司名 seek to capture what the market offers in all its dimensions.

**market maker**: optiver inject liquidity into the market by ensuring there’s always a willing buyer and seller for the products we trade, which allows investors to transfer some of their risk onto us (which we’re able to offset in a multitude of ways). As a result, the markets operate more efficiently, and because we consistently quote our buying and selling prices, they also operate more transparently.

**Because I know Optiver is a top world’s trading firm and market maker/improver for various exchange-listed [financial instruments](https://en.wikipedia.org/wiki/Financial_instruments" \o "Financial instruments), making sure the markets work fairly and efficiently for everyone who participates. And I think the development prospect of trading and finance is very good, because every aspect of our life is related to them. But for some other development directions, such as short video or local life, their dividends are almost gone. In addition, I think the development space of the domestic market is limited, so the development of domestic Internet companies will also be limited, so I will prefer foreign firms with global business scale, such as Optiver.**

And there are a lot of talented people in 公司名creating amazing services to the market. So, I believe that software engineer in the firm must always showing strong ownership to their projects and they always want to make things perfect. Technology is integral to what Optiver do and is a means to that end. So, these spirits do touch my heart.

I remember when I just started my first internship project, everything is new to me. And I’m so passionate about creating great services for customers to save their precious time and money. Before my teammates and I made the application, employees in my intern company need to find a parking space under the office building by themselves. After they can use the application made by our team, they are able to know if there is a parking space left and reserve a parking space in advance. So, we have similar spirits. That’s one big reason why I want to join Dimensional fund advisors.

Secondly, the growth of 公司名is so impressive, (it is not only an online retail shop, it also has a wide range of products like Alexa, kindle, fire tablet and TV, Amazon web service, etc. -- 公司贡献和产品). There are so many fantastic technologies and products here). I will never feel boring if I am in this firm. And I’ll be excited about all the amazing things around me everyday. I can learn a lot of new technologies here. Beside that, I can also learn to work with solutions with full-stack point of view, by engaging requirements, front-end, back-end, storage and all the other stuff. I can understand the problems and solutions thoroughly.

1. **Why this position?**

**为什么选择这个岗位**

The job I applied is Software Engineer Intern in 公司名. The reason why I choose this job is that I love this position and I have the similar experience. I remember when I just started my first internship project, everything is new to me. And I’m so passionate about creating great services for customers( to save their precious time and money). Before my teammates and I made the application, employees in my intern company need to find a parking space under the office building by themselves. After they can use the application made by our team, they are able to know if there is a parking space left and reserve a parking space in advance. That is really similar with 公司名. 公司名 also does a great job to help their others in market, making things convenient for them. (such as providing them with investment solutions. That’s really amazing for customer). So, we have similar spirits. That’s one big reason why I want to join Optiver as well.

Another big reason is 公司名. The growth of 公司名is so impressive, (it is not only an online retail shop, it also has a wide range of products like Alexa, kindle, fire tablet and TV, Amazon web service, etc. -- 公司贡献和产品). There are so many fantastic technologies and products here). I will never feel boring if I am in this firm. And I’ll be excited about all the amazing things around me everyday. I can learn a lot of new technologies here. Beside that, I can also learn to work with solutions with full-stack point of view, by engaging requirements, front-end, back-end, storage and all the other stuff. I can understand the problems and solutions thoroughly.

1. **Biggest mistake and what learned from it**

**最大的错误以及从中学到什么**

The biggest mistake I’ve made happened when I led the parking reservation project during my first internship. The original schedule is six weeks, but I suddenly received a message from my manager says that he will show a reservation demo to one customer after two weeks. And at that time I was working on building the user validation system, that will be an important part of the demo. But I paid too much attention on details, I want to make everything perfect. I didn’t notice that I don’t have enough time to finish all the details. Last day before the demo day, my manager pointed that out. I apologized to him and then we started to figure out if there is a way to keep the demo the same as what we want it to be, but sacrificing some backend performance that customer won’t notice, cause it is just a demo. After the demo, I can rewrite the code to meet my requirements. Fortunately, the demo did not make negative impacts and I successfully finished all functionalities in the end. But from this mistake, I learned that details are definitely important, but I also need to pay attention to the whole schedule, I need to always keep good communication with my teammates when I have my plan. I need to make sure that my schedule won’t affect other’s schedule.

1. **Most challenging project**

**最有挑战性的项目**

The most challenging project is the programmer communication platform. I do this project because I want to apply front-end and back-end frameworks and knowledge that I have learned to a useful project to improve my familiarity with some frameworks and programming languages. In addition, this project can also be used by every programmers to communicate technology and make progress by sharing and commenting posts. It is challenging because I need to implement all the features on my own and I also need to use some middleware to ensure its high performance. It requires me to study some middleware that are helpful for my project, because I haven’t learned anything related to middleware before. Also the time is not unlimited, because I will have a internship and some exams in university months later. so I started to devote more time on the project, even in the early morning and late night. I googled a lot of articles related to middleware, and I finally chosen some middleware that I decided to learn and implement on my project, such as Kafka and ElasticSearch. When I came up with some ideas, I would discuss with my friends to make sure the plan is feasible. And then I learned the tech stacks as quick as possible so that I can design and implement all the functionalities on time. Finally, all the new features have been implemented within the time I planned and I received positive feedback from the people who used my platform. So through this process, I learned that it is so important to be curious and keep learning, the more you read and learn, the more problems you can solve. The feeling of ownership is really important, the product is just like your own child. So “I don’t know how to do it” will never be my excuse.

1. **Could not finish tasks before deadline**

**不能在DDL之前完成任务**

I remember in my first internship, I was building a parking reservation system, and my original schedule is six weeks, but my manager suddenly sent me an email said that he needs to show a demo to a customer three weeks later. One core feature of the demo is reserving a parking space. So I was asked to realize the function before three weeks deadline. If I still follow the original schedule, I definitely can not finish that. My original schedule is to finish the user validation first. But I can not finish that in such a short time. So I figured out another temporary solution with my manager, which is to make every user becomes valid for reserving temporarily. So for the demo, the customer will have almost the same experience. And I can also finish that before deadline. After that, I can make it to validate user before user can reserve parking space.

If I couldn’t finish tasks before deadline, I will discuss with my colleagues, trying to figure out a way that can improve the efficiency. And if necessary, I will use my private time to keep working on the task. After all, finishing the task with high quality as soon as possible is what I want. I’ll never sacrifice the customer experience or the quality of the product because of that. Customer experience is always the most important. We must make sure that the product we are gonna deliver is qualified. We can sacrifice our own time to try to finish the tasks. If we still can not finish the tasks, we will communicate with customers and related people, to tell them why and earn their trust. At the same time, we will try our best to finish the tasks as soon as possible.

1. **Example when you take leadership role in a team**

**领导小组**

Actually I try to step up as a leader whenever possible, because it allows me to develop skills in communication, delegation, and managing multiple tasks and deadlines. In a intermediate class, we were broken off into teams of four and had to complete a large project throughout the remaining half of semester. At first, I set a schedule early in the project and delegated tasks to people based on their strengths. For example, some people learned more about front-end knowledge, so I will let them to build the responsive pages for our project. However, one of our teammates is always unable to finish his work before weekly deadline, which slows down the progress of the whole project. After I found this problem, I decided to have a one-on-one conversation with him every week, because I believe that face-to-face conversation is the most effective way to convey our thoughts. After many times of communication, he began to spend more time on the project and completed his tasks in time, and the atmosphere of our group became more and more harmony. Consequently, my team ended up getting the highest grade in the class. After that I enjoy leading and delegating, and I hope to continue leading in my professional career in the future.

1. **Example how you handle conflicts in a team**

**处理组内冲突**

Actually I try to step up as a leader whenever possible, because it allows me to develop many skills. In a intermediate class, we were broken off into teams of four and had to complete a large project throughout the remaining half of semester. At first, I set a schedule early in the project and delegated tasks to people based on their strengths. For example, some people learned more about front-end knowledge, so I will let them to build the responsive pages for our project. However, one of our teammates is always unable to finish his work before the specified deadline, which slows down the progress of the whole project. And other teammates feel uncomfortable with this situation, and certainly, our cooperation has some conflicts. After I found this problem, I decided to have one-on-one conversation with him every week, because I believe that face-to-face conversation is the most effective way to convey our thoughts. After many times of communication, he realized that his behavior would negatively affect the whole group, so he began to complete his tasks in time, and the atmosphere of our group became more and more harmony. Consequently, my team ended up getting the highest grade in the class. After that I enjoy leading and delegating, and I hope to continue leading in my professional career in the future.

1. **A time when you had to collaborate with other people on something and that you had to do something outside of meetings to benefit the project.**

**与别人合作要做除了会议之外的事情**

In a intermediate class, we were broken off into teams of four and had to complete a large project throughout the remaining half of semester. As a leader, I set a schedule early in the project and delegated tasks to people based on their strengths. However, one of our teammates is always unable to finish his work before the specified deadline, which slows down the progress of the whole project. And other teammates feel uncomfortable with this situation, and certainly, our cooperation has some conflicts. After I found this problem, I decided to have one-on-one conversation with him every week, because I believe that face-to-face conversation is the most effective way to convey our thoughts. After many times of communication, I knew that his other courses have much homework assignments, so he decided to spend more time on other courses. Consequently, I decided to work with him for his part of our project. For him, he realized that his behavior would negatively affect the whole group, so he began spend more time on his part with my assistance, and he later can finished his part in time, so the atmosphere of our group also became more and more harmony. Finally, my team ended up getting the highest grade in the class. After that I enjoy leading and delegating, and I hope to continue leading in my professional career in the future.

1. **A time when you had to receive constructive criticism from a manager or group member and how you proceed**

**接受批评**

I remember last time I was building the parking reservation system, my original schedule is six weeks, but my manager suddenly sent me an email said that he needs to show a demo to a customer two weeks later. One core feature of the demo is reserving a parking space. So I was asked to realize the function before two weeks deadline. If I still follow the original schedule, I definitely can not finish that. My original schedule is to finish the user validation first. But I can not finish that in such a short time. So I figured out another temporary solution with my manager, which is to make every user becomes valid for reserving temporarily. So for the demo, the customer will have exactly the same experience. And I can also finish that before deadline. After that, I can make it to validate user before user can reserve parking space.

If I couldn’t finish tasks before deadline, I will discuss with my colleagues, trying to figure out a way that can improve the efficiency and If necessary, I will use my private time to keep working on the task. After all, finishing the task with high quality as soon as possible is what we want. I’ll never sacrifice the customer experience or the quality of the product because of that. Customer experience is always the most important. We must make sure that the product we are gonna deliver is qualified. We can sacrifice our own time to try to finish the tasks. If we still can not finish the tasks, we will communicate with customers and related people, to tell them why and earn their trust. At the same time, we will try our best to finish the tasks as soon as possible.

1. **You are given a “fragile” complex project that have a lot of user cases. What to do to improve it.**

**改善不好的项目**

First, I will check each independent functionality and write unit test the code block of each functionalities, and then I will test whether the whole functionality has some exception or . In this process, I will fix the defects while inspects. I believe that if each independent function works well, there will not be much problems for the whole project. Of course, I will also test the whole project in the end, such as whether it will be down when many users use it at the same time and used in multiple different environment.

1. **If two of your teammate come up with two different approaches, how do you decide which one to use.**

**组员有冲突**

I will ask them to list the advantages and disadvantages of their approaches first, and then call all team members to have a meeting to make solutions to the shortcomings in their approaches, and then abandon the approach that will bring more dangers and harm to our project. I think logical analysis and team meeting are a good ways to solve team conflicts, which will also enable our team to better continue the team project, because we make it very clean to everybody in our team.