**自我介绍篇**

自我介绍

各位老师们好，很荣幸能参加这次面试，我叫曹武豪，来自浙江，毕业于华侨大学机械工程专业。我的绩点是3.5，在专业排名前20%。在校期间，曾获国家励志奖学金、机械创新设计大赛省一等奖、校三好学生等荣誉，并通过了英语四六级考试。我的毕业设计是基于神经网络的曲面拟合算法研究，最终用C语言构建的神经网络能够实现曲面拟合的功能，并且具有较好的处理噪音数据的能力。

Respected Professors，good morning! I am great honored to meet you here. I am Cao Wuhao, a candidate from Zhejiang province. I graduated from Huaqiao University majoring in mechanical engineering. My GPA is 3.5, ranking in the top 20% of my major. And I have successfully passed the CET-4 and CET-6. In addition, I have won the national encouragement scholarship in the junior year and the provincial first prize in the mechanical competition. My graduation project is the study of surface fitting algorithm based on neural network. The neural network constructed by C language can finally realize the function of surface fitting and has a better ability to deal with noise data.

从小到大，我都是一个喜欢探索未知、追求真知的人，我总喜欢问为什么，问自己也问别人，在提出疑问的过程中增进自己对问题的理解，常常能得到比别人更深层次的认识。另外，我也是一个永远希望能把自己分内的事做好、不给别人添麻烦的人，我想我会是团队中很好的一份子，努力地去做好自己该做的，并积极地去承担自己工作以外的一些责任。

Since childhood, I have always been a person who likes to explore the unknown and pursue true knowledge. I always like to ask why, ask myself and ask others. In the process of raising questions, I can improve my understanding of the problems and often get a deeper understanding than others. In addition, I am also a person who always hope to do his part well and not cause trouble to others. So, I think I will be a good member of a team, try my best to do my job well, and actively take on some responsibilities outside of my own work.

最后，作为跨考生，我目前在计算机学科方面可能还有许多欠缺，但是在接下来的这段时间里，我一定会努力抓紧去弥补自己的不足，争取早日成为一名合格的计算机研究生。我的自我介绍完毕，谢谢老师们。

Finally, as a non-computer professional student, I may still have many deficiencies in computer science, but in the coming period of time, I will make efforts to make up for my shortcomings, and strive to become a qualified computer graduate student as soon as possible. It would be my great honor if I could have the opportunity to pursue a master's degree in this university. That’s all for my self-introduction, thank you.

你最突出的优点

我认为我在学习方面最大的优点是，我永远对未知保持好奇，这种好奇能激发我对学习的兴趣，并引发更多的思考。另外，我也是一个特别有毅力的人，一旦设定了目标，便会一直坚持不懈地努力下去。

In my opinion, my biggest advantage in study is that I am always curious about the unknown, and this curiosity can stimulate my interest in study and trigger more thinking. In addition, I am also a persistent person. Once I set a goal, I will persevere in my efforts

你最大的不足deficiency、insufficient

做事缺乏紧张感，且过于吹毛求疵，容易在没有太多意义的细枝末节上浪费时间，这常常使我比别人要花费更多的时间去完成一项工作。我以后会下意识地让自己紧张起来，争取把这种缺点转化为“做事细致”的优点。

Lack of tension, being overly critical, and wasting time on minor details that don't make much sense all took me longer to complete a task than others. I think this is my biggest disadvantage. (But) In the days ahead, I will subconsciously make myself nervous and try to turn this weakness into a meticulous strength.

**专业知识篇**

你毕设做的什么graduation project/diploma project

针对反求工程中曲面拟合的问题，提出了基于 BP 神经网络进行拟合的方法，并自己重新推导了正反向传播公式。用C语言构建的神经网络，最终能够实现曲面拟合的功能，并且具有较好的处理噪音数据的能力。

In order to solve the problem of surface fitting in reverse engineering, I proposed a method of fitting based on BP neural network and rederived the forward and back propagation formula. The neural network constructed by C language can finally realize the function of surface fitting and has a better ability to deal with noise data.

你觉得你毕设的亮点是什么prominent feature

毕业设计的整体实现其实很简单，但我觉得对于我这个非计算机专业的学生来说，没有借用已有的数学模型，没有去利用现有的神经网络函数库，而是自己重新推导了正反向传播公式，自己用C语言写出了训练、强化、验证的三个过程，这种脚踏实地学习的态度是最难人可贵的。

The overall implementation of my graduation project is actually very simple, but I think for me, the non-computer professional student, without use of the existing mathematical model, not to use the existing neural network function library, rather by myself to deduce the forward and back propagation formula and to use C language to write the three process of training, strengthen and validation. I think this down-to-earth learning attitude is the most commendable.

毕设中印象最深刻的一个点是什么

毕设对我最大的收获就是让我明白，不管是做什么事，都得务实地从脚下一步一步做起，不要好高骛远、企图一步登天。我在选择用什么工具搭建神经网络以及实现BP算法中的矩阵运算时都遇到了很大的困难，都是因为我选择了目前较主流但对我而言却是极其陌生的方式，这对于在短时间内完成项目是很不切实际的。后来我选择了妥协与简化，利用了C语言这个相对来说熟悉一些的方式，最后也是达到了预期的效果。

The biggest harvest from my graduation project is that it makes me understand that no matter what I do, I have to start step by step pragmatically. I encountered great difficulties in choosing which tool to use to build neural network and to implement matrix operation in BP algorithm, all because I chose the method that is relatively mainstream at present but is extremely strange to me, which is very unrealistic to complete the project in a short time. Later, I chose to compromise and simplify, using the relatively familiar way of C language, and finally achieved the desired effect.

介绍一下BP反向传播的原理principle/ theory

先用当前参数对输入值进行加工计算，正向传播得到输出值，将输出值和理论值作差得到误差，再根据误差大小以及参数对误差的影响程度对参数进行反向传播调整。重复以上过程正向传播和反向传播的过程，直到参数调整到合适值。

First, process the input value with the current parameters, and obtain the output value by forward propagation. Then, make a difference between the output value and the theoretical value to get the error. Finally, adjust the parameters by back propagation according to the error size and the influence degree of the parameters on the error. Repeat the above process of forward propagation and back propagation until the parameters are adjusted to an appropriate value.

什么是神经网络

神经网络是由多个非常简单的处理单元按照某种方式相互连接而形成的计算系统。相比传统的信息处理方式，神经网络显得更加的智能。

A neural network is a computing system formed by a number of very simple processing units connected in a certain way. Compared with the traditional way of information processing, neural network appears more intelligent.

什么是人工智能

人工智能可以对人的意识、思考的过程进行模拟，能够像人一样思考。该领域的研究包括语言识别、图像识别、自然语言处理和[专家系统](https://baike.baidu.com/item/%E4%B8%93%E5%AE%B6%E7%B3%BB%E7%BB%9F/267819" \t "https://baike.baidu.com/item/%E4%BA%BA%E5%B7%A5%E6%99%BA%E8%83%BD/_blank)等。总的说来，人工智能研究的一个主要目标是使机器能够胜任一些通常需要人类才能完成的复杂工作。

Artificial intelligence can simulate people's consciousness and thinking process, and in this way it can think like people. Research in this field includes language recognition, image recognition, natural language processing and expert system. In general, one of the main goals of AI research is to enable machines to perform complex tasks that usually require human beings.

人工智能、机器学习、神经网络之间的关系

机器学习是实现人工智能的一种方式，而神经网络又是机器学习中的一个重要算法。

Machine learning is a way to realize artificial intelligence, and neural network is an important algorithm in machine learning.

**考研篇**

为什么要转专业 change major

说实话，一开始的时候，是因为觉得计算机行业的就业前景比机械要好，是为了获得更好的薪资条件。但后来，随着对计算机的进一步学习，我逐渐意识到了它本身的魅力。首先，计算机是一个更容易验证的学科。我是一个很喜欢问为什么的人，但在机械专业的学习过程中，很多问题没有办法得到第一手的答案。而计算机专业中遇到的大部分问题，都能通过自己的实践去摸索、去验证，这是一个很美妙的过程。其次，机械已经发展了几百年了，无论是理论还是应用，很难会有颠覆性的创造了，而计算机还有更多的未知等待着我们去探索，我很期待在这个未知之上能为世界创造出更多的可能。

To be honest, at the beginning, it was because that I thought the job prospects in the computer industry are better than in the machinery industry, so I can get a better salary. But later, with the further study of computer, I gradually realized its charm. First of all, computer science is a much easier subject to verify. I always like to ask why. Unfortunately, in the learning process of mechanical major, I cannot get first-hand answers to many questions. However， most of the problems encountered in computer major can be explored and verified through my own practice, which is a wonderful process. Secondly, machinery has been developed for hundreds of years so that it is hard to see a revolutionary creation, either in theory or in application. But there are still more unknowns waiting for us to explore in computer science. I am looking forward to creating more possibilities for the world based on these unknowns.

考研原因take part in the postgraduate entrance exams

首先，是因为一种很纯粹的胜负欲、好胜心，我希望自己能出类拔萃、能够变得更加优秀；其次，是为了实现我探索知识的愿望，我想要感受学术殿堂的美妙，我想要获得解决自己提出的为什么的能力。

The first reason is that I have a pure desire to win and a competitive heart. I just want to become more excellent. The second reason is that I want to explore knowledge, I want to feel the beauty of the academic palace and to acquire the ability to solve the problems I put forward.

为什么要选择成电University of Electronic Science and Technology of China（UESTC）

首先，我是通过学科评估了解到了我们学校，我们学校的计算机专业在学科评估中取得了很好的成绩；其次，在进一步翻看资料时，我发现我们学校的老师都是十分的优秀。我希望能来到优秀的学校成为优秀老师的学生，所以我来到了这里。

First of all, I got to know about our school through the subject assessment. The computer major of our school has achieved a good result in this assessment. Secondly, I found that all the teachers in our school are excellent when I looked through the materials. I want to go to an excellent school and to be a student of excellent teachers, so I came here.

**未来计划篇**

* 你希望研究生做什么方向research direction

事实上，作为一个非科班的考生，我对研究方向暂时还没有一个很清晰的认识，但如果可以的话，我希望我的学习能做更多的跳出屏幕的事。实体的应用场景会让我更加的兴奋，我认为这是我的兴趣点。

In fact, as a non-computer professional student, I do not have a clear understanding of the research direction, but if possible, I hope I can do more things off the screen in my study. The application of physical scenes will make me more excited. I think this may be my interest point.

嵌入式系统 Embedded System 硬件 hardware 物联网Internet of Things

研究生期间的计划During graduate school

在接下来这段时间里，我会尽快把计算机本科生培养方案中的重点课程学习一遍，夯实理论基础。再去网上找一些练手项目，做项目过程中需要什么就去学习什么，有针对性地对自己进行查缺补漏。

In the coming period of time, I will learn the key courses of the computer undergraduate training program to consolidate my theoretical foundation as soon as possible. And then I will go to the Internet to find some practical projects, learn what is needed in these projects and make up for my gap in a targeted way.

研一时，在学好学校课程外，积极主动地为学长学姐做事，在实践中向他们学习，并找到自己的兴趣点。研二时，努力承担实验室的工作，并在自己的兴趣点上进一步挖掘。研三时，争取发表一篇高水平的文章，如果有可能的话，为读博做好准备。

In the first year of postgraduate study, besides learning the school curriculum, I will work actively for the seniors, learn from them in practice, and find my own interest. In the second year, I will strive to undertake laboratory work and further explore my interest. In the third year, I will try to publish a high-level article and, if possible, prepare myself for a PhD.

你未来职业规划career planning

我是个好奇心很强的人，如果在未来三年中我能适应研究生生活，我是很愿意读博去探寻更广阔的未知的，我十分希望在这个过程中我能获得发现未知解决未知的能力。另外，我并不是一个善于交际的人，所以在毕业后，做一个勤勤恳恳的技术人或许是我最好的归宿。

I am a person with strong curiosity. If I can adapt to the postgraduate life in the next three years, I am willing to pursue a PhD to explore a broader unknown. I sincerely hope that I can acquire the ability to discover and solve the unknown during this process. In addition, I am not a people person, so after graduation, to be a diligent technician is probably the best destination for me.

**生活篇**

兴趣爱好

我的爱好是看电影，我看了许多优秀的电影，如豆瓣的top250、IMDB的top250等。我想通过电影能让我用很少的成本看到更大的世界，在有限的时间里感受到更多的丰富多彩的人生。这是一个很好的放松自己沉淀自己的方式。

My hobby is watching movies, I watched a lot of excellent movies, such as Douban Top250, IMDB Top250 and so on. I think movies can let me see a bigger world with a small cost and feel more colorful life in a limited time. It's a great way to relax and enrich myself.

介绍一部你喜欢的电影

星际穿越Interstellar

我最喜欢的电影是星际穿越。星际穿越讲述了一个父亲跨越大半个宇宙为自己孩子寻找新家园的故事。这部电影让我感受到了父爱的伟大，在这浩瀚的宇宙中，是爱让人类不再脆弱、不再渺小。

My favorite movie is Interstellar. Interstellar tells a story about a father who travels across the universe in search of a new home for his children. This movie makes me feel the greatness of father's love. In this vast universe, it is love that makes human beings no longer fragile and small.

介绍一本你最喜欢的书

牧羊少年的奇幻之旅Alchemist

我的喜欢的一本书是牧羊少年的奇幻之旅。

你的家乡

我来自浙江丽水的一个小山村，那里有很多的山、很多的竹林，我从小就喜欢往山里跑（现在也是），小学的时候曾经突发奇想领着班里同学去深山里找“瀑布”，后来居然真的给我们找到了。那真是一个很美的地方，我的好奇、天真、善良也许都是那里的山林赋予给我的。我很庆幸我能有一个在农村的快乐童年。

I come from a small village in Lishui, Zhejiang, where there are many mountains and bamboo groves. I have been fond of running in the mountains since I was a child (and still do). When I was in primary school, I once led my classmates to look for "waterfall" in the mountains on a whim, and finally we found it. It is really a very beautiful place, my curiosity, innocence and kindness may all be the mountains there endowed me. I am glad that I could have a happy childhood in the countryside.

你的家庭

我家是一个典型的三口之家，爸爸妈妈还有我。他们之前是农民，养过各种动物，种过各种作物，但是现在去城里务工了。他们都是很淳朴、善良的人，家里虽不富裕，却始终十分支持我念书。我爱他们。

My family is a typical family of three, my parents and me. They used to be farmers, raising all kinds of animals and growing all kinds of crops, but now they have gone to the city to work. They are very simple, kind-hearted people. Although my family is not rich, they always support my study. I love them.

你的大学

我毕业于华侨大学，华侨大学是国内最大的侨校之一，来自八十多个国家和地区的境外生占到了总体学生的20%以上。因此，我们学校最大的特色就是文化的多元化。我有幸参加过境外生组织的一些活动，如泼水节、美食节等。不同文化之间的碰撞是一件很有趣的事。

I graduated from Huaqiao University. Huaqiao University is one of the universities with the largest number of overseas students in China. Overseas students from more than 80 countries and regions account for more than 20% of the total students. Therefore, the biggest feature of my school is the cultural diversity. I had the honor to participate in some activities organized by foreign students, such as the water-splashing festival and the food festival. The collision between different cultures is a very interesting thing.

讲述一件让你生气难过的事

我是一个比较积极乐观的人，同学给我的评价是，永远蹦蹦跳跳的、永远开心快乐的。真要说有什么生气难过的事，那可能是当自己付出了很多努力，最后却因为各种原因没有取得理想的成果吧。但通常抱怨一阵子，我很快就能缓过来了，转而继续更加努力地朝目标迈进。

I am a positive and optimistic person. My classmates give me the evaluation that I am always bouncing and happy. If there is anything angry or sad, it may be when I have paid a lot of efforts, but for various reasons, I have not achieved the desired results. But usually, after complaining for a short period of time, I can quickly get over it and move on to working harder towards my goals.

介绍一个你生命中最重要的人

我生命中最重要的人一定是我的父母。首先，是他们给了我生命，是他们给了我感受美好世界的机会。其次，是他们塑造了我，培养了我，让我得以进入大学学习。最后，是他们一直坚定地支持我去做我想做的事。感谢他们的辛苦付出！

The most important people in my life must be my parents. First of all, they gave me life and gave me a chance to feel the beauty of the world. Secondly, they have shaped me and nurtured me so that I can go to college. Finally, it is they who have been steadfast in supporting me to do what I want. Thank them for their hard work。

**万能语句篇**

对不起，我没听清，能麻烦老师再说一遍吗？谢谢了。

I'm sorry, I did not catch that, could you please say it again? Thank you.

不好意思，我之前没有学过这方面的知识，我能换个问题回答吗？我在这段时间重点学习了计网和数据库，或许我可以尝试一下回答这两个方面的问题。谢谢了。

I'm sorry, I haven't learned this knowledge before, can I change a question to answer? During this period of time, I focused on learning network and database. Maybe I can try to answer the questions in these two aspects. Thank you.