# 记录学习笔记

目前还不完善，正在不断更新。

## 刷题

[刷题](刷题/)

**下面的三个专栏得到了大部分人的点赞，推荐给大家**:

* [**30个笔试面试模板题**](刷题/InterviewAlgorithm.md)
* [**图解LeetCode**](刷题/LeetCode/LeetCodeSolutionIndex.md)
* [**图解剑指Offer**](刷题/Other/剑指Offer/)

累计: Codeforces80道左右，LeetCode200道左右，其他OJ100道+。

之前在牛客网发的两篇帖子，算是给自己项目做了一个推广 ^\_^。

* https://www.nowcoder.com/discuss/171791
* https://www.nowcoder.com/discuss/177397

## 数据结构与算法

[**数据结构和算法**](https://github.com/ZXZxin/ZXBlog/tree/master/%E6%95%B0%E6%8D%AE%E7%BB%93%E6%9E%84%E7%AE%97%E6%B3%95)

部分文章：

* [**二分查找的总结-6种变形**](数据结构算法/Algorithm/BinarySearch/二分查找的总结(6种变形).md)
* [**各种排序算法的总结-10多种**](数据结构算法/Algorithm/Sort/各种排序算法总结(全面).md)
* [**二叉树的各种操作**](数据结构算法/Tree/二叉树的各种操作(递归和非递归遍历,树深度,结点个数等等).md)
* [**关键路径详解**](数据结构算法/Graph/关键路径/Hdu%20-%204109.%20Instrction%20Arrangement以及关键路径详解.md)
* [**最小生成树两种算法**](数据结构算法/Graph/最小生成树/Hdu%20-%201863.%20畅通工程(最小生成树模板题)(Kruskal算法和Prim算法实现).md)
* [**最短路径算法**](数据结构算法/Graph/最短路/Hdu%20-%201874.%20畅通工程续(最短路dijkstra模板).md)
* [链表、栈、队列实现](https://github.com/ZXZxin/ZXBlog/blob/master/%E6%95%B0%E6%8D%AE%E7%BB%93%E6%9E%84%E7%AE%97%E6%B3%95/Data%20Structure/List/%E9%93%BE%E8%A1%A8%E3%80%81%E6%A0%88%EF%BC%8C%E9%98%9F%E5%88%97%E7%9A%84%E6%80%BB%E7%BB%93%E4%B8%8E%E5%AE%9E%E7%8E%B0.md)
* [哈夫曼树和哈夫曼编码](https://github.com/ZXZxin/ZXBlog/blob/master/%E6%95%B0%E6%8D%AE%E7%BB%93%E6%9E%84%E7%AE%97%E6%B3%95/Tree/%E5%93%88%E5%A4%AB%E6%9B%BC%E6%A0%91%E5%92%8C%E5%93%88%E5%A4%AB%E6%9B%BC%E7%BC%96%E7%A0%81%E6%80%BB%E7%BB%93.md)
* [线索二叉树](https://github.com/ZXZxin/ZXBlog/blob/master/%E6%95%B0%E6%8D%AE%E7%BB%93%E6%9E%84%E7%AE%97%E6%B3%95/Tree/%E7%BA%BF%E7%B4%A2%E4%BA%8C%E5%8F%89%E6%A0%91%E5%AD%A6%E4%B9%A0%E6%80%BB%E7%BB%93.md)
* [二叉搜索树](https://github.com/ZXZxin/ZXBlog/blob/master/%E6%95%B0%E6%8D%AE%E7%BB%93%E6%9E%84%E7%AE%97%E6%B3%95/Tree/%E4%BA%8C%E5%8F%89%E6%8E%92%E5%BA%8F%E6%A0%91%E7%9B%B8%E5%85%B3%E6%80%BB%E7%BB%93.md)
* [平衡二叉树](https://github.com/ZXZxin/ZXBlog/blob/master/%E6%95%B0%E6%8D%AE%E7%BB%93%E6%9E%84%E7%AE%97%E6%B3%95/Tree/%E5%B9%B3%E8%A1%A1%E4%BA%8C%E5%8F%89%E6%A0%91%E6%80%BB%E7%BB%93.md)
* [字典树](https://github.com/ZXZxin/ZXBlog/blob/master/%E6%95%B0%E6%8D%AE%E7%BB%93%E6%9E%84%E7%AE%97%E6%B3%95/Data%20Structure/Trie/LeetCode%20-%20208.%20Implement%20Trie%20(Prefix%20Tree)%E4%BB%A5%E5%8F%8A%E5%AE%9E%E7%8E%B0%E5%AD%97%E5%85%B8%E6%A0%91(%E5%89%8D%E7%BC%80%E6%A0%91).md)
* [线段树](https://github.com/ZXZxin/ZXBlog/blob/master/%E6%95%B0%E6%8D%AE%E7%BB%93%E6%9E%84%E7%AE%97%E6%B3%95/Data%20Structure/SegmentTree/%E7%BA%BF%E6%AE%B5%E6%A0%91%E6%80%BB%E7%BB%93%E4%BB%A5%E5%8F%8ALeetCode%20-%20307.%20Range%20Sum%20Query%20-%20Mutable.md)
* [素数筛法](https://github.com/ZXZxin/ZXBlog/blob/master/%E6%95%B0%E6%8D%AE%E7%BB%93%E6%9E%84%E7%AE%97%E6%B3%95/Math/Hdu%20-%201431%E7%B4%A0%E6%95%B0%E5%9B%9E%E6%96%87%E4%BB%A5%E5%8F%8A%E7%B4%A0%E6%95%B0%E7%9B%B8%E5%85%B3%E6%80%BB%E7%BB%93.md)
* [乘法快速幂](https://github.com/ZXZxin/ZXBlog/blob/master/%E6%95%B0%E6%8D%AE%E7%BB%93%E6%9E%84%E7%AE%97%E6%B3%95/Math/%E4%B9%98%E6%B3%95%E5%BF%AB%E9%80%9F%E5%B9%82%E7%9B%B8%E5%85%B3%E6%80%BB%E7%BB%93%20%20%26%20LeetCode%20-%2050.%20Pow(x%2C%20n).md)
* [矩阵快速幂](https://github.com/ZXZxin/ZXBlog/blob/master/%E6%95%B0%E6%8D%AE%E7%BB%93%E6%9E%84%E7%AE%97%E6%B3%95/Math/%E7%9F%A9%E9%98%B5%E7%9B%B8%E5%85%B3%E6%93%8D%E4%BD%9C%E5%92%8C%E7%9F%A9%E9%98%B5%E5%BF%AB%E9%80%9F%E5%B9%82.md)
* [并查集](https://github.com/ZXZxin/ZXBlog/blob/master/%E6%95%B0%E6%8D%AE%E7%BB%93%E6%9E%84%E7%AE%97%E6%B3%95/Data%20Structure/UnionFind/POJ%20-%201611.%20The%20Suspects%E4%BB%A5%E5%8F%8A%E5%B9%B6%E6%9F%A5%E9%9B%86%E6%80%BB%E7%BB%93.md)

其他的可以参考具体的文件夹下，[**点这里**](数据结构算法/)

## 设计模式

比较简单易懂的总结。

[设计模式](杂项/设计模式/)

* [动态代理1](https://github.com/ZXZxin/ZXBlog/blob/master/%E6%9D%82%E9%A1%B9/%E8%AE%BE%E8%AE%A1%E6%A8%A1%E5%BC%8F/11%E4%BB%A3%E7%90%86%E6%A8%A1%E5%BC%8F(%E4%B8%80).md)
* [动态代理2](https://github.com/ZXZxin/ZXBlog/blob/master/%E6%9D%82%E9%A1%B9/%E8%AE%BE%E8%AE%A1%E6%A8%A1%E5%BC%8F/12%E4%BB%A3%E7%90%86%E6%A8%A1%E5%BC%8F(%E4%BA%8C).md)
* [策略模式](https://github.com/ZXZxin/ZXBlog/blob/master/%E6%9D%82%E9%A1%B9/%E8%AE%BE%E8%AE%A1%E6%A8%A1%E5%BC%8F/01%E7%AD%96%E7%95%A5%E6%A8%A1%E5%BC%8F.md)
* [观察者](https://github.com/ZXZxin/ZXBlog/blob/master/%E6%9D%82%E9%A1%B9/%E8%AE%BE%E8%AE%A1%E6%A8%A1%E5%BC%8F/02%E8%A7%82%E5%AF%9F%E8%80%85%E6%A8%A1%E5%BC%8F.md)
* [装饰者](https://github.com/ZXZxin/ZXBlog/blob/master/%E6%9D%82%E9%A1%B9/%E8%AE%BE%E8%AE%A1%E6%A8%A1%E5%BC%8F/03%E8%A3%85%E9%A5%B0%E8%80%85%E6%A8%A1%E5%BC%8F.md)
* [单例模式](https://github.com/ZXZxin/ZXBlog/blob/master/%E6%9D%82%E9%A1%B9/%E8%AE%BE%E8%AE%A1%E6%A8%A1%E5%BC%8F/14%E5%8D%95%E4%BE%8B%E6%A8%A1%E5%BC%8F.md)
* [模板方法](https://github.com/ZXZxin/ZXBlog/blob/master/%E6%9D%82%E9%A1%B9/%E8%AE%BE%E8%AE%A1%E6%A8%A1%E5%BC%8F/09%E6%A8%A1%E6%9D%BF%E6%96%B9%E6%B3%95%E8%AE%BE%E8%AE%A1%E6%A8%A1%E5%BC%8F.md)
* [迭代器](https://github.com/ZXZxin/ZXBlog/blob/master/%E6%9D%82%E9%A1%B9/%E8%AE%BE%E8%AE%A1%E6%A8%A1%E5%BC%8F/10%E8%BF%AD%E4%BB%A3%E5%99%A8%E6%A8%A1%E5%BC%8F.md)
* [适配器1](https://github.com/ZXZxin/ZXBlog/blob/master/%E6%9D%82%E9%A1%B9/%E8%AE%BE%E8%AE%A1%E6%A8%A1%E5%BC%8F/07%E9%80%82%E9%85%8D%E5%99%A8%E6%A8%A1%E5%BC%8F(%E4%B8%80).md)
* [适配器2](https://github.com/ZXZxin/ZXBlog/blob/master/%E6%9D%82%E9%A1%B9/%E8%AE%BE%E8%AE%A1%E6%A8%A1%E5%BC%8F/08%E9%80%82%E9%85%8D%E5%99%A8%E6%A8%A1%E5%BC%8F(%E4%BA%8C).md)
* [简单工厂](https://github.com/ZXZxin/ZXBlog/blob/master/%E6%9D%82%E9%A1%B9/%E8%AE%BE%E8%AE%A1%E6%A8%A1%E5%BC%8F/04%E7%AE%80%E5%8D%95%E5%B7%A5%E5%8E%82%E6%A8%A1%E5%BC%8F.md)
* [工厂方法](https://github.com/ZXZxin/ZXBlog/blob/master/%E6%9D%82%E9%A1%B9/%E8%AE%BE%E8%AE%A1%E6%A8%A1%E5%BC%8F/05%E5%B7%A5%E5%8E%82%E6%96%B9%E6%B3%95%E6%A8%A1%E5%BC%8F.md)
* [抽象工厂](https://github.com/ZXZxin/ZXBlog/blob/master/%E6%9D%82%E9%A1%B9/%E8%AE%BE%E8%AE%A1%E6%A8%A1%E5%BC%8F/06%E6%8A%BD%E8%B1%A1%E5%B7%A5%E5%8E%82%E6%A8%A1%E5%BC%8F.md)

## Java基础

[Java基础](Java基础/)

* [JVM](Java基础/JVM)
* [异常](https://github.com/ZXZxin/ZXBlog/blob/master/Java%E5%9F%BA%E7%A1%80/%E5%BC%82%E5%B8%B8/Java%E5%BC%82%E5%B8%B8%E5%B0%8F%E6%80%BB%E7%BB%93.md)
* [泛型](https://github.com/ZXZxin/ZXBlog/blob/master/Java%E5%9F%BA%E7%A1%80/%E6%B3%9B%E5%9E%8B/%E6%B3%9B%E5%9E%8B%E7%9A%84%E4%B8%80%E4%BA%9B%E6%80%BB%E7%BB%93.md)
* [反射](https://github.com/ZXZxin/ZXBlog/blob/master/Java%E5%9F%BA%E7%A1%80/%E5%8F%8D%E5%B0%84/%E5%8F%8D%E5%B0%84%E5%9F%BA%E7%A1%80.md)
* [多线程并发](https://github.com/ZXZxin/ZXBlog/blob/master/%E5%B9%B6%E5%8F%91/%E5%A4%9A%E7%BA%BF%E7%A8%8B/Java%E5%A4%9A%E7%BA%BF%E7%A8%8B(%E4%BA%8C).md)

## MYSQL

* [事务和隔离级别](https://github.com/ZXZxin/ZXBlog/blob/master/%E6%95%B0%E6%8D%AE%E5%BA%93/MySQL/advance/MYSQL%E4%BA%8B%E5%8A%A1%E5%92%8C%E9%9A%94%E7%A6%BB%E7%BA%A7%E5%88%AB.md)
* [索引](https://github.com/ZXZxin/ZXBlog/blob/master/%E6%95%B0%E6%8D%AE%E5%BA%93/MySQL/advance/MYSQL%E7%B4%A2%E5%BC%95.md)
* [锁机制](https://github.com/ZXZxin/ZXBlog/blob/master/%E6%95%B0%E6%8D%AE%E5%BA%93/MySQL/advance/MYSQL%E9%94%81%E6%9C%BA%E5%88%B6.md)
* [主从复制](https://github.com/ZXZxin/ZXBlog/blob/master/%E6%95%B0%E6%8D%AE%E5%BA%93/MySQL/advance/MYSQL%E4%B8%BB%E4%BB%8E%E5%A4%8D%E5%88%B6.md)

## Redis

* [事务和消息订阅](https://github.com/ZXZxin/ZXBlog/blob/master/%E6%95%B0%E6%8D%AE%E5%BA%93/Redis/Redis%E4%BA%8B%E5%8A%A1%E5%92%8C%E6%B6%88%E6%81%AF%E8%AE%A2%E9%98%85.md)
* [Redis持久化](https://github.com/ZXZxin/ZXBlog/blob/master/%E6%95%B0%E6%8D%AE%E5%BA%93/Redis/Redis%E6%8C%81%E4%B9%85%E5%8C%96.md)
* [主从复制](https://github.com/ZXZxin/ZXBlog/blob/master/%E6%95%B0%E6%8D%AE%E5%BA%93/Redis/Redis%E4%B8%BB%E4%BB%8E%E5%A4%8D%E5%88%B6.md)

## 操作系统

[操作系统](计算机基础/操作系统)

* [Linux基础](https://github.com/ZXZxin/ZXBlog/blob/master/%E8%AE%A1%E7%AE%97%E6%9C%BA%E5%9F%BA%E7%A1%80/%E6%93%8D%E4%BD%9C%E7%B3%BB%E7%BB%9F/Linux/Linux%E7%9F%A5%E8%AF%86%E5%B0%8F%E6%80%BB%E7%BB%93.md)
* [Vim常用总结](https://github.com/ZXZxin/ZXBlog/blob/master/%E8%AE%A1%E7%AE%97%E6%9C%BA%E5%9F%BA%E7%A1%80/%E6%93%8D%E4%BD%9C%E7%B3%BB%E7%BB%9F/Linux/Vim%E7%BC%96%E8%BE%91%E5%99%A8%E6%80%BB%E7%BB%93.md)

## 计算机网络

[计算机网络](计算机基础/计算机网络)

* [计算机网络协议](https://github.com/ZXZxin/ZXBlog/blob/master/%E8%AE%A1%E7%AE%97%E6%9C%BA%E5%9F%BA%E7%A1%80/%E8%AE%A1%E7%AE%97%E6%9C%BA%E7%BD%91%E7%BB%9C/%E8%AE%A1%E7%BD%91%E6%80%BB%E7%BB%93_1_%E8%AE%A1%E7%AE%97%E6%9C%BA%E7%BD%91%E7%BB%9C%E5%92%8C%E5%8D%8F%E8%AE%AE.md)
* [物理层](https://github.com/ZXZxin/ZXBlog/blob/master/%E8%AE%A1%E7%AE%97%E6%9C%BA%E5%9F%BA%E7%A1%80/%E8%AE%A1%E7%AE%97%E6%9C%BA%E7%BD%91%E7%BB%9C/%E8%AE%A1%E7%BD%91%E6%80%BB%E7%BB%93_2_%E7%89%A9%E7%90%86%E5%B1%82.md)
* [数据链路层](https://github.com/ZXZxin/ZXBlog/blob/master/%E8%AE%A1%E7%AE%97%E6%9C%BA%E5%9F%BA%E7%A1%80/%E8%AE%A1%E7%AE%97%E6%9C%BA%E7%BD%91%E7%BB%9C/%E8%AE%A1%E7%BD%91%E6%80%BB%E7%BB%93_3_%E6%95%B0%E6%8D%AE%E9%93%BE%E8%B7%AF%E5%B1%82.md)
* [网络层](https://github.com/ZXZxin/ZXBlog/blob/master/%E8%AE%A1%E7%AE%97%E6%9C%BA%E5%9F%BA%E7%A1%80/%E8%AE%A1%E7%AE%97%E6%9C%BA%E7%BD%91%E7%BB%9C/%E8%AE%A1%E7%BD%91%E6%80%BB%E7%BB%93_4_%E7%BD%91%E7%BB%9C%E5%B1%82.md)
* [传输层](https://github.com/ZXZxin/ZXBlog/blob/master/%E8%AE%A1%E7%AE%97%E6%9C%BA%E5%9F%BA%E7%A1%80/%E8%AE%A1%E7%AE%97%E6%9C%BA%E7%BD%91%E7%BB%9C/%E8%AE%A1%E7%BD%91%E6%80%BB%E7%BB%93_5_%E8%BF%90%E8%BE%93%E5%B1%82.md)
* [应用层](https://github.com/ZXZxin/ZXBlog/blob/master/%E8%AE%A1%E7%AE%97%E6%9C%BA%E5%9F%BA%E7%A1%80/%E8%AE%A1%E7%AE%97%E6%9C%BA%E7%BD%91%E7%BB%9C/%E8%AE%A1%E7%BD%91%E6%80%BB%E7%BB%93_6_%E5%BA%94%E7%94%A8%E5%B1%82.md)

## 工具

Git

* [Git基础和入门](工具/Git/Git_1_基础和入门.md)
* [Git分支和版本回退](工具/Git/Git_2_分支和版本回退.md)
* [checkout、stash、标签、diff](工具/Git/Git_3_checkout、stash、标签、diff.md)
* [Git远程协作和分支](工具/Git/Git_4_远程协作和分支.md)
* [远程分支、本地分支、refspec](工具/Git/Git_5_远程分支、本地分支、refspec.md)

Docker

* [Docker基础](https://github.com/ZXZxin/ZXBlog/blob/master/%E5%B7%A5%E5%85%B7/Docker/Docker.md)