

# Short Cut of The Coding Notes

Yaoguang. Luo

I have been coding since 2004, during this fifteen years, I always be asked by others: Hey TIN, where is your project and code from? I answered them: all I did, but they got more innocence, so I at here now and try to type some words to make more implementations about my experience. Quick coding, once I get this point, yoyo! Resonate with it! It cost my whole life on where to make promotion. More and more area, from industry to the factory, lower cost with higher quality, short time with long lifecycle, scientist racked their minds for a solution.

## Teenage

The biggest love is the father's love, the father's love as a mountain; I never looked the boundary, forever. The deepest love is the maternal love, the maternal love as the peaceful sea which among of my depth heart. In my life, all have been enjoying their containing. I like this feeling, just like they are the same to my support. My parents both are doctor. Each time I came across the setback or the mistake, mother looked at me gently, I knew all could pass; I needed more like to be a strong man. But, Father always strict to me. I knew that I always make a mistake to let him angry. But I was young and foolish, and now am full of tears.

## Nanjing

Professor Han is a good teacher, all year round in the radar field research, he is my engineering department director, he taught me the computer and the physics, I still remembered that one of the sophomore physics class, really bored I were at that time, I sneaked <<Einstein's famous quotations with English style>> out from the bag and watched it. I'm sorry that Mr. HAN was finding what I did. he took my book away and exclaimed:" well!!!, when I was a kid, I wanted to be Einstein, but now the result that I failed. Hey~ Mr. LUO, I hope you can do", I ashamed and face turned red, embarrassed suddenly. Since then I had never deserted, and also from that time, the teacher gave me the particularly "care", especially when the MCU course in the school, Mr. HAN selflessly to give me many of his physical and microprocessor records.

## Christ

I still remember a class where JPSIR let us do the assembly language for deletion. he said we can't use 8086/ or other higher version to do this logic. so we try to using 8085. After I searched all the ASM commands, I did not find any resource about deletion. Then JPSIR came and asked how computer deletion does? I got results, using n's complement and implements and add 1, if get carry, than do a complement add 1 again. Then he got a smell, 8086's deletion is true using this method. after this session, I strongly knowing that science is an evolutionary inheritance。Everything we know how to use it, and we also need to know how to make it.

This is a computer IC class and we need to do a runtime design of CPU, to make calculation of each ASM command processing, we also need to draw the state graph. When I finish the question, I saw him toward with me and looking carefully with my graph, he asked me where the clock comment is? I said in the left parts, he angry with me and said: why you write in the left part? All book, all the resource is for the right. I know my mistake, and suddenly changed to the right. After this session, I strongly knowing that science is an rigorous and accusation, everything we know how to use it, but we cannot changed it.

## Shanghai

第三，行动大于思考。很多时候我们总是讨论，开会，探讨如何将项目做好，其实这是没有太多必要的。思考太多未必是好事，软件开发周期大大延长，成本就高了。最好的办法是想一步写一步，进行版本控制，出现新想法或者旧想法失败就 rollback，然后继续写，我这 17 年写的项目很多基于这种思想。

10 年前在上海，总工程师跟我说给我三个月时间来设计示波器的结构，我思考了一整天，没有动手写代码，却总是找不到切入点。我意识到 这样子搞我想一年也未必能有结果，于是我准备尽快动手写代码， 怎么 写呢？不如先看别人是怎么写的，于是我下了个 开源的版本示波器，于是一步一步根据需求把程序设计出来，结果一个星期都不用就设计完了。无独有偶，之后我在做一个人工智能项目设计需要用到 coauthor 的图，这个思想又帮我一个大忙，coworker 图我也设计

出来了。每次有想法我都要亲自去实践，实践后我又基于此相处许多新想法，然后选最有价值的实践，我这种思考方式类似于加的 tree list。

## **Luther**

Wearing a formal suit and putting on a pair of black leather shoes, I felt excited and some fear, which were entwined in my heart. A rectangular, black table stood on the soft, grey and smooth carpet. Under my arm was a dark brown package, which was loaded with important documents. Around me were a lot of students with fashionable clothes. I felt culture shock because the faces were not familiar to me. I was used to seeing people with black hair, not people with yellow hair. In China, all the people have dark eyes but here the people have blue, brown or green eyes, as I looked at all the strange faces and eyes, I began to feel anxious!

I was reading a newspaper when the phone rang. Glancing around the hall quickly, I found everyone focused on their work. My heart had become calm after I put my cell phone on mute. To the left I could see through the window where the director's office was located. The furnishings were a bit small but arranged orderly in a small area. A corridor with access to the LTC was next door. I was so happy to see where some Chinese people were waiting for interviews. To the right was a gate to the small hall, I saw a soft sofa, ELS's teacher's photos hanging on the white wall next to the sofa. Next to the back gate, where some magazines in the holding hook. And straight ahead was a vast globe map, where I found out my hometown, suddenly I felt friendly and warm. When I go into Asian room, I could remember very clearly that to my right was a rectangular, new and white board where Mr. Joel wrote our English lessons. I quietly sat in the first row and looked toward the front, where there were two narrow windows with shallow white blinds on them, looking past the windows, I then saw many tall and straight pine trees with lush and green needles on them. My mood has brightened a lot!

## **L.A**

在电商写搜索引擎的时候，我设计了一套打分算法 来匹配搜索的词汇，我起初设计的自认为很合理可是速度怎么快也要 1 秒多。我知道这很危险，因为并发一高，我的 1 秒就会无限延长。这时候浩雷 提出了一些算法的意见，他觉得需要加一个 3 级缓存代理逻辑在我的算法里面，于是我基于这个问题，设计一个单元缓存映射车间，把 多次读取的文件进个行本地 cache，然后处理 结果速度都控制在 0.1 秒以内，双十一每台服务器扛过 300 并发，有条不紊的赚钱。我深刻的体会到算法决定了软件的质量。

我这辈子遇到最棘手的旅游项目代码问题。公司老员工都走了，留下一堆烂摊子，眼看项目就要黄了，我出现了，我下意识到我这次面对的困难不仅是如何设计一个工程，而是要面对怎么将一个变黄的工程救活。于是我最快速的将原有的工程代码读懂，然后开始设计新的版本。旧代码没有半句说明，从头到尾，几万行一下子读懂相当困难。我让海东将老代码进行注释，他的注释对工程救活帮了大忙。因为我能最大程度的读懂代码，11-1 月，3 个月的时间，酒店项目就转危为安。

## **S.F**

Today, I picked my leader to his home, in the highway, he said go exit, the pronunciation of exit what i heard is "erxziit", at that time I really couldn't understand what he was talking about, after a while, he said exit means go out of this line. I said the pronunciation of exit is "erxsaite", my leader said "no Tin, you did wrong! "erxziit" is right, "erxsaite" means you are happy. Omega!!!!!! I had learned exit this words when i was 14 years old, now I'm 32 years old, during this 18 years, nobody had pointed my errors.. Then I said: "Mir, you are my true friend".

## **Beijing**

...

...