

The connection between me and programming was established because of an 'accidental finding' in the last year in university, it was an article automatically delivered by the Official Account on WeChat, demonstrating an example of the whole process of erecting a little simulation system using Python language that can sort out the movies that are related to the type of movie you type in, I was completely stunned by it, finding programming could be enthralling and highly customized like that, I was inherently obsessed with the a sense of freedom, which is what this example reflects -- feeling free of creating things based on my own will without being confined by excessive/exorbitant/redundant exterior factors and programming is definitely the ideal way through which I can fulfill my desire. I can't help picturing that one day I'll design my own intelligent application or software using advanced algorithms that is for certain and practical usage and everything in it is set just as how I want it to. However, I know I need to be patient and set about doing this step by step, well, the very first step is to obtain a premium and systematic education in computer science due to a lack of background in it.

Undergraduate study in the field of Civil Engineering strongly facilitates my ability of logical thinking, hence, I had smoother sledding in learning Python language, while still, I recall details of getting stuck when coping with debugging and optimization, and speaking of which, I'd like to mention the first time of developing a crawler for scraping detailed information of movies in DouBan on the last day in August, the process of debugging lasted for a whole day, that was because my unfamiliarity towards HTTP, so I was steeped in learning the basic principle of it, I then knew why my crawler was not stable when scraping, after supplementing 'header' with 'Cookie', 'Host' and 'Referer', I saw it starting crawling slowly but surely, even in this moment now, few words are there that I can come up with to describe how excited and content I was, if necessary, I would ascribe it to the expectable positive feedback, that is to say, I knew that there would be bugs no matter how concentrated or cautious I was and the process of debugging sometimes could be really bothersome and discouraging, I never falter at believing that finally I will manage it and I always look forward to seeing my program working, simply put, I relish a lot in writing every single statement and imbue the codes with my own thoughts, I reckon it is the endogenous love that leads to me enjoying coding and organizing programs, and this kind of passion is endless for it is from within.

To derive more lore and practical experiences, I'm working in a French education technology company as an intern Python Developer until present, working for a platform called MyMooc customized for the users to enjoy premium online courses, I develop crawlers that are efficient and meanwhile friendly in maintenance to extract data from some famous course-providing platforms, such as Coursera and Futurelearn, and then PIM(Product Information Management) would be used to filter the data I get from the platforms, the last step is to store the data in our back-end. I'm now developing a small frame calling YouTube API to integrate data to MyMooc, it's based on asynchronous method, so it runs super fast. Hitherto, what benefits me

most is a better understanding on programming, twigging that programming is only a small part of computer science, and it is what ignited my enthusiasm in longing to gain more comprehensive knowledge in computer science, since before I'm trying to develop something, I always have the blueprint of how I should organize the program settled in my brain first, and then for many times I realize that there are many details that I can't thoroughly apprehend, yet to become a preeminent programmer, trenchant understanding on how computer works 'level by level' is perforce crucial, and it further strengthens my conviction of getting education in graduate school.

Preparatory and Foundational courses provided in the program would help me shape deep and transparent cognition towards how computer works and the principles of operating system and so forth, which is the foremost thing I'm looking forward to as when a building is about to be built, foundation always comes first. With robust foundation, I'll absorb more in artificial intelligence, machine learning, web technologies and database systems in advanced courses. I aspire to be a machine learning developer resulted from my fondness of manipulating data, and I'm 100% sure that machine learning is going to bring a lot of fun to the rest of my life, not only does my aspiration necessitates the phase of getting involved in learning in graduate school, but also it embodies my strong desire in being who I want to be and super creative utilizing the skills that will be acquired by me once I'm admitted to the Viterbi Engineering School.