


How to learn software development for free

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Justin James, a TechRepublic collaborator, offers professional advice to a high school student who is deciding whether to study Computing Sciences at the university with the aim of becoming a software developer. This is a guest post by Justin James, presenter of TechRepublic's Programming and Development blog. A few months ago, I met someone through a common friend who wanted my opinion on whether I should study Computer Sciences at the university with the aim of becoming a software developer. This is my answer to him. I have good news and bad news. The good news is that, apart from the lack of field experience, you are in a great position in terms of time and geography (note: he is a high school student who lives near Rochester, NY). The bad news is that the field of software development has begun to undergo very serious changes in terms of how things are done, which could turn it into a rather unattractive field. Let's start with the good. The Good News First, your lack of experience in the field of development has allowed you not to have any prejudice about it, and unlike many seekers to developers with whom I speak, you are not full of illusions or fantasies about how it would be to work as a developer. Too many people go to school thinking they're going to graduate and they're going to work on, say, World of Warcraft. Yeah, it's possible to go straight from school to the game industry, but you have to break your back in school to do it, and preferably go to a school with a specialized game program. I recently read an article in ACM Communications about these games programs, and what those students are doing is not easy. Very few students arrive at these schools and programs, and those who have such a goal without the necessary motivation and talent are sadly disappointed. The next advantage you have is that you live near the Rochester Institute of Technology (RIT), which is a very good school for learning software engineering. (not "how to program" to program" true "software engineering"). A friend of mine went to RIT, and I was very impressed by the education he received there. Even better, through that program, he was able to get some great practices, and he ended up in IBM, doing amazing things that I can't even start to understand. While the school that attends is not all (you can get a decent education anywhere), going to a school with a good reputation that really gives you a solid fundamental education can be a game changer. Bad news More and more software development work is sent to India, Russia, China, Israel, Romania and Ireland; these countries have excellent educational systems, much cheaper labor, and laws that do not give employees much power. A few years ago this was annoying but not horrible because the work sent abroad was generally of low programming value. Many of these delocalization agreements failed due to language barriers, time zone differences, cultural barriers and other factors that basically act as "friction" in the process. These offshore stores have learned, and their own people have developed the experience to work with US companies with less effort. In addition, many of these stores (in particular in India) hired people who moved to the United States and learned the language, customs, etc.; those people now return home to bring their experience working with American companies to the companies there. As a result, offshore companies are improving a lot. Some people thought that offshore stores lacked creativity or practical experience in the industry to develop applications completely on their own; this is no longer the case, and many overseas companies have created large 100% internal projects without external orientation. In other words, after graduating from college, you'd be competing only with the other recent graduates in your area but with graduates worldwide. Think of this as a challenge; someone else is willing and able to make the For less money, so you have to be willing and capable of doing the work better. Another factor is the changing nature of software development. In the last decades, and especially in the last five years, we have seen a raft of introduced products that make the programming more than a "part of colamenting together" of what was never possible. This does not mean that, in the future, you will not have programmers, but it means that there will be a quite profound division among the people who do the "Glutee" (which will be equal to a factory of factory since the beginning of the AA 1900) and the people who design the glue and the parties. This trend will continue, and must continue, for these reasons: software development projects are very expensive, especially in relation to how much money they save in too many cases. Making changes in the existing software is much difficult than making it start with, and it is extremely difficult if the person who makes the changes is not the one who wrote the original (or if it has been a while since the developer touched the code). Software patterns are very well established in many cases, and there are few reasons to maintain rewriting from the same code. Many current development techniques are rooted into things that were necessary 20 or 50 years ago, but they are no longer necessary. Each expert in the industry and veteran programmer with which I have spoken agreed that this is where things go, but it is not known when it will happen, it could be five years, or it could be fifty years. But I would not want me to be surprised by this trend. Is this mean that you should not go to the program? In absolute! It means that if you want to enter this field, you have to be smart. I do not recommend that you try to be a programmer; The presentation of programs together is a proposal increasingly lower than low value. I suggest you look to be a true software engineer because these professionals are enough and they desperately need. Large companies are hiring people from other countries with H-1B, H-1B visas, local talent is unemployed because schools abroad are generating the software engineers that the industry needs while American schools are launching programmers. Shoot the stars. Go to the best school you can. Unless you personally object to it, I strongly recommend enrolling in the Reserve Officer Training Corps (ROTC) at the university and joining the army or trying to attend a service academy. One of the biggest mistakes of my life was turning down an appointment to the Air Force Academy and a full scholarship through the Air Force ROTC. Even without the scholarship, getting into the service would have been a big move, but I didn't see it then. The military teaches incredibly important skills in many areas, and former military personnel often have a huge advantage in the workforce (as long as they have been honorably discharged). Also, I suggest you start learning to program now. It will give you an edge when you get to school; it will also allow you to find out if you hate work before committing to something. More importantly, you need to work in development jobs and/or internships at college if you want to be employable when you graduate, and the more experience you get, the more likely you will be to get those jobs and internships. If you really want to be the best, you should start by reading Computer Program Structure and Interpretation (which MIT used to teach programming). This course will challenge you in a million ways, but when you complete it, you will know more about thinking about software development than most full-time programmers. The book is quite difficult to go on your own (almost everyone I know who read it on their own did so after having some industry experience), but even take a Honest in him will make him some good. To get experience, start with some simple applications on your own or may modify any existing open code code. Then start. starts. In an open code project with other people, or it is voluntary for a nonprofit time to help them write software. This will provide you practical experience, as well as something to put on your curriculum. The key is that you must differentiate yourself. If you graduate from school and you passed that time turning hamburgers and you get BS and CS in the informaut, Guess what? There are thousands of students in all the country who graduated in that situation and thousands more abroad, all of which are hungry for work. But if he was graded from school with two years of quality internships or part-time employment, with a fund in real software engineering (especially if he performed a specialized course such as those videogame programs discussed in ACM), Then you should stand out and have no problem starting a rewarding career. I hope this helps! J.j.a Additional Professional Resources What advice would you offer a high school student who is considering a career in it? What would you like to have known about working in him who did not know before entering the field? Share your thoughts at the discussion. Get advice on a career administration in your TECHREPUBLIC career administration bulletin, delivered every Tuesday and Thursday, offers advice on how to find a job and how to deal with once you are there. Refractise automatically today! Today!

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