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## **WAYS OF PROFESSIONAL DEVELOPMENT FOR IT SPECIALISTS AFTER GRADUATION FROM UNIVERSITY**

Everyone in their lives needs an education. And none of us is an exception. Today we will talk about how to be a student after studying at university. The process of learning is getting harder from year to year, but young specialists have to move forward. The topic of constant training for developers of programs is extremely urgent. There is an opinion that not all teachers at universities are practicing programmers. And training programs often have obsolete subjects and technologies that are no longer used in real life. Thus, in most cases, after graduation - a person has to "wait" extra to get their first job as a programmer.

The aim of the given study is to consider ways of further professional education after graduation from university for IT specialists in Ukraine.

According to the aim the following tasks have been set: to analyse the educational and professional aspects of training courses, conducted by the leading IT companies; point out the main characteristics of mentor programming training in IT sphere.

Ukrainian programmers are highly valued in the world, they get high salaries and are offered plenty of jobs. So interest in programming is high. If a young software developer already has programming skills and his number one goal is to find the first job, then one of the best options is to visit local IT companies and ask about training courses. Most companies run them for free. They are conducted in order to bring the jungles into their teams. The overwhelming majority of applicants have to pass the initial eligibility test.

Sometimes it happens that even with the successful completion of such courses, people were not hired (there are no free vacancies at that time). In this case candidates gain experience and practice. Next time applicants will be better prepared for the job interview. The majority of big IT companies hold courses, among which SoftServe, GlobalLogic, Eleks, Epam can be mentioned. For example, EPAM training centre conducts training in 10 the most popular software areas: Software Testing, Java, .NET, Business Analysis, Automated Testing, Android, BI, PHP, Data Science, and Frontend [2].

It is very difficult for a beginner, who is just taking online programming courses, to explain what he is getting himself into. However, after completing one or more courses, everything falls into place. From the start the students are given practical tasks, but not everyone is able to cope with them. The most common problem for beginners after completing online courses is that they have learned the basics but cannot program on their own.

Typically, when completing an online programming course, the beginner ticks the appropriate box in the to-do list and proceeds to learn the next programming language in the next online course. And when the list is completed, all online courses are completed and the time for practice is over, there is a stop. How to program, where to program, what to program, why - and this is by far not the definitive list of questions that a programmer has to answer.

If the applicant feels that he knows the basics but can't write a more or less simple program himself, then he probably doesn't know the basics.

In this case, the student is in the next phase of learning programming - the stage of "disappointment", when it comes to the painful realization that everything is really not as easy as it was when you were led by the hand and helped with everything. At this stage, your main job is to constantly debug the program and hundreds of questions appear that you do not know who or where to ask. Although at first everything was so simple. Here are some tips to help you not get frustrated at all:

Tips for a beginner programmer:

1. Download and configure a complete programming environment (IDE).
2. Write applications from scratch.
3. Start small (start with simple console programs / games).
4. Write a lot of code.
5. Work in pairs.
6. Don't be afraid to ask questions and do it right.

If an applicant wasn't selected for the IT company's course or wants to move to a different specialization than courses offer, then it is advisable to move on to the next area of training – mentor programming training.

In this case such a powerful tool as self - education is being involved. It is already well known that self - education plays a vital role in modern career development. And in the case of mentor programming training, it is considered to be a key tool.

The essence of this approach is that a trainee has to find himself a mentor (program developer) who will lead him in the right direction by giving training tasks, outlining possible decision options, checking the results and providing further suggestions for improving the result. It is essential to emphasise that the mentor does not teach the trainee how to solve programming tasks, he only guides you in the right direction. That means that an applicant is learning himself but under supervision.

Mentor variant is suitable for highly motivated people with great desire. After all, most of the problems during the training have to be "raked up" by yourself. The more tasks the trainee completes, the more necessary practical skills he acquires. Ideally, if the mentor, apart from helping with the training, with a successful outcome - will recommend a trainee to his boss for further employment.

To sum up the above mentioned ideas, it is necessary to point out that every young software developer should decide himself which training method will work

best for him, what educational means and technologies it is better to use and which of them are better and more appropriate for a career start.

#### REFERENCES

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