Item 8 - Report

Diseño y Pruebas

Grado de Ingeniería del

Software Curso 3

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1. Introduction

In this last item we are asked to produce an essay containing information about companies we would like to work at, projects we are working on at this moment and technologies we feel capable of handling in a professional way. The steps we must carry out to ensure we fulfil our objectives is also something I will be talking about later.

2. Companies.

Although we are asked to reveal the names of companies we would like to work at in the future, I feel I don't have the baggage required to make that kind of decision. Companies exist in every shape, form, size and colour and so even thought I could say a name of a company which is orientated to that sector that I am most familiar or comfortable in, I still have no knowledge of how they operate, what the treatment of their employees is or many more variable which would make me want to work at said company. Therefore, I will instead briefly explain which sectors of our profession seem the most attractive to me. Web Application development is what, as University of Seville's students, we are most familiar with. There is plenty of work surrounding this sector, as it is in constant development and growth. However, jobs may vary drastically as salaries range from €800 up to anywhere near, or even higher, than €7000. This is because of the difference between companies' size and different job positions. Web programming is something I've been doing for the last couple of years and which I have really been passionate about. However, it is in no way something I want to end up doing in long term. Web programming can get repetitive and boring at some point and it doesn't let you use your knowledge at a full capacity; you are restricted to whatever your superiors, usually analysts, ask you to do. It is there where I would like to be in a near future. A job as an analyst or project manager is a certain step forward as it allows you to have an autonomy you wouldn't be able to have when being simply a programmer.

That being said, web development is not my first option. Security related jobs is what intrigues me the most, however I still have zero knowledge about them. I feel like security is not given the importance it deserves throughout the years at the University as it is too important to only truly learn about it in your senior year. One of the jobs I do know something about and which I am thinking of doing my end of degree project on is pentesting. Pentesting is a job which never confronts you with the same problem twice and which requires you to constantly think outside of the box to fulfil your objectives. It

requires a fully coordinated team which not only knows engineering but also social skills, lock-picking, etc.

Future endeavours aside, I am currently a programmer at a web development company called 10Code S.L. as a way to grab that much needed experience before I finish my degree. After a couple of months there I have learned to cope with clients, bosses and co-workers in ways you will never learn when studying or on an internship. It has made my ideas even more clear and helped me develop my autonomy.

3. Technologies.

It is not worth mentioning the technologies we work with at the university as most of them are too out of date to even have importance on the curriculum and we only learn them on a basic level. However, thanks to this subject I have been able to greatly develop my knowledge on frontend programming. Style-wise I have been using CSS3 with the framework Bootstrap 3 & 4 both here and at work. This technology is the most widely used and so it greatly helps towards finding job as a front-end developer. For functionality I have used JavaScript with several plugins and frameworks such as jQuery or Vue.js. jQuery has already been a must-know for a couple of years, and we are experiencing the rise of Vue.js as it surpasses other alternatives like Angular.js or React.js.

It is for backend where things get interesting as the number of options available to choose from is nearly unlimited. I have been using a PHP framework called Laravel at work which is widely used and comes greatly prepared for Web development. This framework is really fast, reliable and has a great community behind it which makes documentation on bugs and errors plenty.

4. Steps to take moving forward.

My belief is that, although we got to have a clear path towards our wishes it is still too early to decide which steps I want to take moving forward. I still have 1 more year of studying plus any post-degree studies I take on. There is plenty of time to decide on my future and for the moment I prefer to make the most of whatever I can, absorb any experience and knowledge I can from who surrounds me and get ready for what comes ahead.

5. Conclusion.

Although a reflexion is always welcomed I think it is too early to make a statement on most of the points we are asked about when elaborating this document. However, I also think it shouldn't be; the University should have even more Job insertion programs and preparations for the real world. It sometimes feels like we are still at school and ages are to pass by before we reach our work days.