**Week 1 – Monday – Warmup**

**Q: Welcome to the Projects & Algorithms portion of your program! Having completed projects to unveil to the public is a vital first step toward displaying your skill sets. Take the time today to think about and mention 1. What website(s) you wish you could have help build/maintain. 2. What website(s) you might take ideas from to build your own projects and why, 3. Pick a CSS framework you want to explore this month.**

A: In my case I would like to work on maintain websites for small and medium business. These types of companies almost always ask for web platforms that are kind of easy to build, in which in the future I can offer freelance work. Ideas of websites I have seen on some webpages that present templates for different SME (such as a pizza restaurant or a small lawyer´s buffet. Regards the CSS framework I would like to explore I would say that Bootstrap is the one I would like to delve more.

**Week 1 – Friday – Portfolio Research**

**Q: You should start considering how you might want your own portfolio to look when you complete your program. Lots of our graduates produce great-looking portfolios shortly after they leave. This is an important tool for marketing yourself and showcasing your talents and character to potential employers. Do a quick Google search of web developer portfolios and pick out a few of your favorites. Enter 1-3 links to the various portfolios and a short description of what stands out about them.**

A: Without any doubt I would mention the portfolios from the graduated students of this course which are the following:

* <https://mattfarley.ca/>
* <https://jonny.me/>
* <http://necholasgomez.com/>
* <http://kyletsuyemura.com/>

All of them have something in common: attractiveness for the customer and really good details about their technical skills and projects. On the future definitely I would like to build a portfolio similar to ones aforementioned.

**Week 2 – Monday – Erros**

**Q: What do you do when an application stops working?**

A: When an application stops working, I first check the error messages that appears to that error. Second, I google the error and I understand what is the issue that is provoking the problem. Additionally, If it is needed I use print statements function on the console to check what is happening with the variables of the code. If at of avobe is not enough I go over forums or ask to a senior programmer about this error if he can help me to find the solution. After finding the problem I update the code and I relaunch it again.

**Week 2 – Wednesday – Big O**

**Q: There are many ways to sort a list of numbers. For example: [4,2,5,10,18,-3,14,1,6,9] can be sorted using a bubble, insertion, or selection technique among others. But thinking beyond just how you actually PERFORM these sorting techniques, we must consider efficiency. Which sorting technique is best and why? You only need to consider sorting an array for this exercise. Yes, this is meant to be somewhat open-ended and draw you into more research than you're used to.**

A: A sorting technique would depend on what the user would look about in the performance of the algorithm. Regarding to their classifications, sorting techniques are compared regards different characteristics such as memory usage, stability, method, and time complexity. Depending which feature we would like to optimize, the best sort algorithm would vary. For example, if we one to prioritize the time complexity of the Algorithm someone could choose the “Quicksort” technique. However, if memory usage is more important, in that case a “Manacher Algorithm” would be a better choice, because statistically is the one that use the fewest comparisons. At the end the best technique would depend in what feature of the method we want to prioritize when running the algorithm.

**Week 2 – Friday – Version Control**

**Q: What is a version control system and why would you want to use one?**

A: Version control is a system that records changes on a file or bunch of files that allows to recall them on later versions. We use them when programming on a team, so when programming a big project, traceability of changes could be easy to manage and also to try different ways of building a program and don’t erase old work that could be useful later.

**Week 3 – Monday – Domains**

**Q: Time to consider portfolios again. There are lots of free services out there to help you launch an app, like Heroku and for a 12-month period, AWS. But you also need to consider registering a domain. We in the online staff have used namecheap.com, name.com, godaddy.com, Google Domains and others for procuring a domain name. Most are very cheap, in the ballpark of $10 a year or less. Netlify.com let's you do it for FREE. Do some shopping and find a domain service and domain name you want to get for yourself. Previous students have domains like hiremoe.com, danieltclancy.com, leibel.netlify.com, mickajohnson.com and others. New domains like .tech, .live, .design, .ninja are coming out all the time too. Share the domain you've already grabbed or plan to grab and which provider you got it from!**

A: I would go through Google Domain and I will choose hirebigsam.com as my web page for presenting my portfolio.

**Week 3 – Wednesday – The Competition**

**Q: You are in an interview for a Python Jr Dev position and the interviewer asks 'Why should we hire you over someone with a Computer Science degree?'. How do you respond?**

A: I would say because having finishing this bootcamp for being a Full Stack developer, a person like me would have more practical knowledge than a Computer Science graduated student. As I see, I can present myself to the interviewers with a new portfolio and projects that I have created along this course and the hot-industry technologies I have learned on the Bootcamp. On the other hand, a CS student would come with more theorical knowledge regarded for example to Computer Architecture, Data Structures or Digital System, knowledge that is good to have, but the industry is not looking for. To sum up, I would highlight that the practical knowledge I have gather the last few months and compare the theorical one from a recent CS graduated student, which definitely will be more valuable for joining a real-life project.

**Week 3 – Friday – Career Service Bulletin**

**Q: Career Services Check-In: We have brilliant staff in our career services department who are ready to work with you as long as it takes to help you navigate the job search. Once a Dojo student, ALWAYS a Dojo student. With that said, do you plan to work with our career services staff and attend their workshops which will take place 1 week after your graduation date? What concerns you most about this next step and getting out there in general?**

A: In my case I am heading to a MSc in Computer Science at a UK University so am not looking for a job search at this moment. Instead I want to develop web programming skills for being able to offer freelance work on the future. Nevertheless, one thing I would like to check with your Career Service team is the preparation for interviews and a review of my current CV. These things I think would be useful to assess for being prepare in the future for any job search.

**Week 4 – Monday – Git**

**Q: What is a merge conflict, and how would you go about resolving one?**

A: A merge conflict is a situation in which git is unable to resolve which code has to keep on two or more different commits. When changes of code occur on different lines or files, git automatically is able to merge all commits without external help. However, when changes are made on same lines, git will need some help from the user to know which code have to keep and which one to discard. The way to solving this issue, is selecting which change want to be preserved and which one want to be discarded. On big projects, these issues are resolved generally by a Chief programmer how selects the best solution according the guidelines of the project.

**Week 4 – Wednesday – Pseudo Code**

**Q: Using pseduo-code is a powerful tool for ironing out your own thoughts, as well as a viable way to begin a whiteboarding interview. An example of using psuedo-code to represent, say, printing all items in an array would be:**

**for item in array**

**print item**

**Use pseudo-code to write an algorithm that reverses an array**

A: array\_length = int(length(array)/2)

halfway = int(array\_length/2)

for i until halfway

interchange array[i] with array[array\_length -i] and viceversa

**Week 4 – Friday – Graduation Day**

**Q: Graduation Day: You've finally made it! You've all been amazing students and we in the Coding Dojo team want to say thank you for all your hard work and dedication to the program as well as putting your trust in us to get you to the finish line. We feel confident you'll be able to achieve your goals with the skills you've sharpened over the past 4 epic months. Now, don't let up, push for that next step. Take the time today to declare what your next steps are... Are you going to continue working on your projects? Pick up a new stack? See what companies you'd like to work for and see what technologies they're into? Lay out 2 to 3 things you plan to accomplish next.**

A: I will continue with you working on Java and MERN stacks. I think I have to learn a lot about web development and your courses have help me a lot to be able to do a well career shift on technological topics. On the future, definitely I would like to work on Google or Amazon doing staff related to Full Stack development and Data Science.