

## Professional Statement

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Since my freshman year in high school, I have been attracted to the nature of computer science; two facts that computer science can be applied to basically any field and that it is a fast-growing industry but is highly male dominated triggered me to study computer science. With my growing passion for computer science, I entered University of Illinois at Urbana-Champaign with a major of computer science and earned an opportunity to participate in SGCI Coding Institute.

Although I already have some experience with coding, I still thought learning never ends, and there should be something I can learn. And my thoughts were right. During my daily experience with the Coding Institute, I first encountered a programming language called Python which I am not that familiar with. I learned how it was first introduced to the world and how it was continuously developed to make various applications globally. Then, I was introduced to an unfamiliar operating system, Linux, and the commands associated with it. I have some experience with Windows and MacOS, but I really did not have a chance to know how Linux operates. And the thing was that Linux was not that different from other operating systems. There were several commands I already knew through using Windows terminal, and I realized that some of them work with Linux as well. Using BandIt and breaking through each level of task from it, I started to be more familiar with Linux and the commands.

There was an Airavata experience where I had to perform several experiments and look at the results of it to analyze and learn Apache. I also had an experience with making a website that assigned users several roles among doctor, nurse, and patient. It was interesting to know how the command terminal interacted with the local server to make an usual website that I see in daily life.

I also learned Flask, which is a helpful library from python. Flask allowed me to run the local host website and display what I would like to show on the website. Installing something and running it by utilizing Windows terminal was such a new experience to me, and the fact that I can make my own website that lets me show what I would like to display was fascinating. In addition, the team project related to it was quite interesting too.

Each team decided their own research question, found a dataset regarding the research question, and exhibited and analyzed them to answer the research question using Flask. Although the team members including me thought we still had a lot to learn about Flask and we lacked our knowledge, there were mentors who understood our feelings and circumstances and tried to help us out to let us cooperate and make the best out of it. We all could not

understand all the systems and code used to run our local server, but trying to comprehend the already written code by Marlon and modifying several lines of code to answer our research questions were a valuable experience.

Learning and exploring the field of coding that I was unfamiliar with was my primary goal through taking SGCI Coding Institute. The topics I was introduced definitely interested me a lot because they were all very new to me and I never had a chance to experience them. I was someone who always likes to know, learn, and experience new things and I believe SGCI Coding Institute was enough to fulfill my goal and understand my adventurous characteristics. Via the SGCI Coding Institute, I had a chance to explore the coding world more deeply, and I confirmed my ultimate goal: Go out to the world of cyber security and contribute to developing a world where all information is kept safely without a risk of hacking.