

## Personal Reflection

I thought studying the programming language C# was a good and worthwhile experience. I learned more about language with research in every step of the case study. Going into the study, I only knew C# as being a language that was pretty similar to Java. After completing the case study, I now understand that C# has many unique features, but still has similarities to languages like Java and C. It is a vast language with many capabilities that other languages do not allow for.

The process I followed in order to learn this language somewhat followed the structure of the case study assignments. For each assignment of the case study, I would spend time learning about what the assignment asked for before writing the essay. I would usually start at the surface of the topic and read these articles. While researching the surface, I would click on links to send me to other website articles that went more in depth for a specific aspect. I found this process to be engaging and interesting, as there are a multitude of C# features that are much more than what they seem on the surface. Usually, this process was beneficial and generally easy to follow, but there were times when it got difficult to follow when I dove too deep into a specific aspect. I also used the Microsoft Learn website and articles in the majority of the research on C#.

I thought the process in learning how to write C# was fairly simple. Most of the expressions used while coding is similar to programming languages like Java and C. It was helpful to have previous experience in these languages when coding in C#. The features that were unique to C# were still generally simple to learn, but these took more time to learn and understand them. LINQ and asynchronous programming were some examples of this. LINQ is a feature that is unique to C#, and I didn't know too much about asynchronous programming before learning about it in research too. These features took a little more time to understand, but

writing code examples of these features helped me in creating my own code examples for these features.

I think that I will see this language again in the future. C# is a popular programming language that is used by many companies, so there is a good chance that I will end up working for a company that uses this language. Since I am graduating this May from Xavier, I won't see it in any other undergraduate computer science course. I also don't remember using C# in any other course besides this case study for Programming Languages. For these reasons, I believe that I will use C# either in a future job or in any independent future projects.

Overall, I thought conducting a case study on C# was a very beneficial and worthwhile experience. Since it is used by many companies, there is a very good chance that I will use C# in a future job. Despite C# being similar to Java and C on the outside, diving deeper will show that it is a unique and robust programming language.