

CS-470 Full Stack Development II – Final Reflection

Eric Slutz

Southern New Hampshire University

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Presentation Video: https://youtu.be/jaa1_rPTk9Y

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Module Eight Journal: Final Reflection

Experience and Strengths

This course has helped me reach toward many of my professional goals. One topic covered in this course I was very interested in learning about was containerization and how to use Docker and Docker Compose. In my professional career I have some experience with pre-existing containers and modifying containers some. This course filled in some missing pieces for me though by beginning from nothing, and then creating a new container and getting everything up and running on it. Additionally, with having some professional experience with AWS, the topics covered in this course were familiar with me. However, this course provided me with some more hands on experience with these cloud tools and provided some additional context about how they all work.

My strength as a software developer is my eagerness to learn. I am always looking to expand my knowledge and dive into topics to learn more.

Having completed this course, I feel more prepared to continue in my role as a Full Stack Developer.

Planning for Growth

The use of microservices and the serverless architecture can be used to produce efficiency and make you application easier to manage. By utilizing serverless tools, the responsibility to manage the required infrastructure is no longer yours; allowing you to focus on the code.

Additionally, this enables your application to easily scale up or down automatically based on current demand. In order to predict the cost using serverless tools, the best way would be to analyze historical usage trends to try to figure out future costs. Containers on the other hand are

more cost predictable because the container needs to be always running so it can respond to requests. That makes it easier to predict.

A pro of serverless microservices is that it is easily scalable, and you only pay for what you use.

A con is that if you have a complicated application, serverless may not be well suited to the applications needs.

The elasticity and pay-for-service nature of serverless tools are two of the major benefits of it and would be a deciding factor for any planned future growth.