Professional Self-Assessment

Completing the Computer Science program at SNHU and developing this ePortfolio has helped me realize how far I've come in both my technical skills and overall confidence. When I started this degree, I lacked experience and knowledge but now I feel more focused and capable, especially after going through the capstone and putting everything together. It has been exciting and satisfying to look back and see how far I've come. Building this portfolio has helped me better understand my strengths and the kind of work I enjoy most, like solving problems with code and turning ideas into working programs that people can actually use.

Working on different classes throughout the program gave me a solid foundation across the main areas of computer science. Specifically, learning about coding, different programming languages, data structures, software/app design, and security has helped me develop the core logic and clean design thinking I ended up using in the projects you'll see in this portfolio. Outside of class, I also started working on a stock trading algorithm that I update regularly, which has pushed me to keep learning and apply what I learned in more real-world situations.

Throughout the program, I've developed a better understanding of data structures and algorithms. I didn't always feel confident with things like search or filtering logic, but now I've built programs that use dictionaries, lists, and control flow to solve basic user problems. I also got more familiar with how to store and manage data, like using JSON files to keep user preferences or trip information saved between sessions. That experience helped me grasp the basics of persistence and how even simple storage solutions can make an app more useful. On the security side, I learned how to think more defensively in code. I more frequently consider input validation, error handling, and not assuming everything will work perfectly all the time.

The three artifacts in this portfolio are all based on the same idea, a travel planning app, but each one focuses on a different area of computer science. Together, they show how I've applied my learning in software design, algorithms, and database logic. One version improves the organization of a Java GUI using object-oriented design, another builds filtering logic in Python, and the final version adds JSON-based persistence so users can save and load their favorite trips. Even though it's one main project, each enhancement shows a different skill set, and they all work together to give a full picture of what I can do.

This portfolio is a way for me to show potential employers what I've learned, not just in theory, but through actual code that runs and makes sense. I'm looking forward to getting into the field, possibly as a junior developer or something related to automation or software testing and continuing to learn on the job. This ePortfolio gives me a head start by organizing everything I've built and showing how I've grown through the program.