**Professional Self-Assessment**

Completing my Computer Science coursework and building this ePortfolio has been instrumental in spotlighting my technical strengths, refining my professional goals, and readying me for a career in the field. From enhancing legacy code, implanting graphical interfaces, and integrating databases I have demonstrated adaptability and perseverance which is key to help me stand out in the ever-evolving field of computer science.

While working on assignments I was able to collaborate with peers who were willing to lend a hand or needed the help themselves. With open group discussions I was able to reach out and test different versions of code and even find multiple different solutions to the same problem. I enjoy meeting those who think differently than me because it trains me to see potential solutions differently. This skill I have honed over the years will translate smoothly into cross-functional teams in my near future.  
 My deep dive into data structures sharpened my understanding of performance trade‑offs. Implementing the lookupCourse and deleteCourse methods using SQLite reinforced secure coding practices such as; Using prepared statements to prevent SQL injection, validate all user input, and handling errors to avoid crashes. Each time I refactored code for better error handling or more efficient memory use, I strengthened my commitment to a more robust, maintainable program.

Keeping my code readable and scalable with clear separation of concerns is foundational to develop larger projects. My course outcome was to master this behavior when enhancing my applications and I did just that when I used classes to encapsulate all my database logic while the main program focused on user interaction. With the enhancements I have performed and uploaded as my ePortfolio I believe I captured a full lifecycle of development which helps mirror what real industry practices require.

The enhancements you will see within the portfolio are easy to follow along with comments that I have left for my audience. The filenames: 24hrClockEnhancement1, BufferOverflowEnhancement2, and AdvisorCourseListEnhancement3 are the three enhancements I personally worked on throughout the course CS-499 CAPSTONE. The enhancements in the GitHub repository are followed by their narratives where I dive deeper into my thought processes of each assignment. I believe these assignments demonstrate proficiency in the following skills required for the field of computer science: secure coding standards, testing, version control, database integration, critical thinking, software architecture, and API usability.