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FINAL PROJECT

REFLECTION

 The purpose of this article is to provide a reflective account of my progress through the Computer Science Capstone course (CS499). My professional ePortfolio showcases my skills, knowledge, and abilities gained from the Computer Science curriculum, and I thoroughly explain how I accomplished the course goals by improving its artifacts.

 Building a portfolio that illustrates my unique abilities is a great way to show potential employers how valuable I am by showcasing my work in a visual format. I have laid a solid groundwork for explaining my abilities throughout the main topics in my ePortfolio, Foundations of Computer Science. My progress in the fundamental areas of database management, algorithmic data structure design, and software engineering is demonstrated by the artifacts from different courses in the Computer Science Program.

 Throughout my time as a student at SNHU's Computer Science department, I have accumulated a wealth of knowledge and abilities, and I have showcased them in my ePortfolio. This exemplifies my progress in the program and the recognition I have received for producing excellent results. An organized, technically sound, and contextually acceptable display of my skills and knowledge in written and visual communication was the goal of the ePortfolio I created and submitted.

 My ability to rapidly acquire new abilities was greatly enhanced by the computer science program and the CS499 assignments. The ePortfolio's accompanying artifacts showcase the candidate's capabilities in computer science, data analysis, software development, technical writing, and leadership, as well as their ability to solve problems with intellectual humility and a can-do attitude. I have gained the knowledge and abilities to succeed in a career in computer science and related fields thanks to the many classes I have taken during the computer science degree.

 Code reviews aid in the recovery from disruptive changes by identifying faults when fixing them is cost-effective, improving the team's competencies, and introducing fault tolerance to the business or individuals. It produces better code that is easier to maintain. Through my experience in code reviews for software engineering, algorithms, and databases, I am able to develop and implement strategies that promote teamwork, bring together different types of stakeholders, and help organizations make better computer science decisions based on solid analysis and improvements to code that improve functionality. I analyze the artifacts code and lay out my plan for enhancements in the code video review. The code review included looking over the artifacts and the present source code to see how they may be improved. I am improving my ability to provide code reviews in collaborative settings that are cohesive, technically strong, and well suited to different audiences and circumstances by using the films that are generated.

  This software design and engineering artifact I created for my CS320 class showcases my ability to use both traditional and cutting-edge methods, techniques, and tools in the field of computing to design and build solutions that meet the needs of specific industries. Incorporating design considerations for user experience and interaction with various program decisions and activities, the artifact covered a comprehensive software design and engineering process. Using industry-standards, make the application easy to use and make features accessible. Store CSV data created, accessed, edited, and deleted by users in a relational database.

I used algorithmic principles, followed applicable computer science practices and standards, balanced the inherent trade-offs in design decisions, implemented the interplay and functionality of algorithms and data structures across classes and methods, and organized their layouts and source code to develop and evaluate computing solutions to specific problems. In order to find security holes, fix design mistakes, and protect user privacy, I developed a security mindset that looks forward to malicious attacks on software systems. Within a security-oriented architecture defined by default denial, I enhanced data and resource security by using engineering approaches and techniques for input validation.

 My ePortfolio demonstrated my ability to use both conventional and unconventional approaches, I believe. Through the development of features using CSV data files, I was able to demonstrate my proficiency in creating value-adding and industry-specific computer solutions. I effectively managed the trade-offs inherent in design decisions by engineering considerations of relationships and functionality within the code, and I developed and assessed computing solutions that address specified problems by employing algorithmic principles and adhering to relevant computer science practices and standards.