Enhancement Three: Databases

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In May 2022 I started working towards a Bachelor of Science in Computer Science at Southern New Hampshire University. It is now April 2025, and I have created this ePortfolio as a final project for my Computer Science Capstone course. It is a collection of some of the different projects I worked on while in school.

Going through the program has not only helped me build a solid technical skill set, but I've also picked up some great communication skills. For instance, in my CS-319 UI/UX Design and Development class, I designed an app that scanned barcodes on grocery items and informed users about the healthiness of the ingredients. I collaborated with several people to understand their expectations for the app. I sketched out the app and a few pages, then re-interviewed everyone for their feedback. Using that input, I created a digital version of the screens and met with everyone again before finalizing the design. This course taught me how to communicate effectively to gather the information needed for a quality design.

In multiple courses at SNHU, I was provided with real world scenarios. These scenarios involved communicating with stakeholders. I learned quickly that communication with stakeholders is a key component in software design. I had to be able to understand what they wanted me to produce. Working with these scenarios allowed me to learn how the software development life cycle works. It also taught me to look at things from different perspectives.

Understanding data structures and algorithms is essential in programming. I have been able to use and create multiple solutions to problems with algorithms and sort methods. Knowing what sort method to use to solve a problem as efficiently as possible is important. If the wrong one is used, you could make something that should run relatively quickly, take a long time.

I've also spent a lot of time working with databases. Creating a structured database and being able to properly maintain it are important skills to have. Just about everything online needs a database. Think about online shopping. A database is used to store inventory. Having the knowledge to interact with different databases is a skill I can leverage in a ton of different scenarios.

Security is one of the most important things to consider while working on any project. I do not want to code something that just works. I will provide a technically sound piece of software that will be up to date with the latest security patches. No company wants to have software that leaves them vulnerable due to something small being overlooked.

Works Cited

None/Not applicable