4-1 Journal: Career Choice and Artifact Update

Victoria Franklin

Southern New Hampshire University

CS-499 Computer Science Capstone

Professor Gene Bryant

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Part One

My fascination with technology is not just about the devices but about its potential to make a real difference. This deep-rooted enthusiasm for technology and its potential to revolutionize the healthcare industry has driven me to switch careers and pursue a degree in Computer Science. I'm particularly interested in creating medical record software that is user-friendly for clinical personnel, not just for programmers. This sense of purpose guides my decisions and keeps me on track with my initial strategy. I was quietly involved in the development of our improved medical records program, which piqued my curiosity about the subject.

The way I view my professional future has changed throughout the years. I changed my mind about my career path in my early twenties; I had initially planned to attend college to become a video game designer but went to college for nursing. This experience in nursing, however, has given me a unique perspective on the intersection of healthcare and technology. I've seen firsthand the challenges clinical personnel face with complex medical record software, which has driven my interest in creating user-friendly solutions. This unique perspective ultimately led me to pursue a degree in Computer Science. In my mind, I'm still a nurse who just became a software engineer.

Even though I had no idea when it would happen, I always imagined myself working as a software engineer. As a nurse, you'll face a lot of stress and have an unpredictable work schedule. My commitment to self-improvement is unwavering. I am dedicated to investing in education, as I believe it is crucial to stay competitive and enhance my skills. Whether at the beginning of a career or seeking to build on previous experience, obtaining a degree is a significant way to progress in one's profession. The program at SHNU was perfect for me, so I enrolled there after

conducting some research. I have not given any consideration to pursuing more education or certification after completing my bachelor's degree at this time. Nevertheless, that might alter.

Everyone knows that software developers are the ones who make all the fun apps, operating systems, and programs Swed (2023). I learned more about this field by reading up on the necessary qualifications, typical work experience, and expected income. I have completed multiple course outcomes about database administration, algorithmic thinking, and software design concepts as I have progressed through the curriculum. Nevertheless, goals remain to be met, especially in domains such as optimization of data structures, sophisticated database queries, and advanced algorithm design. As I pursue academic and professional greatness, these remaining consequences offer chances for development and education. My ultimate goal is to use my skills in computer science to create innovative and user-friendly medical record software that will revolutionize the healthcare industry.

Part Two

My capstone project in computer science, which focuses on algorithms and data structures, is progressing impressively. I am currently incorporating feedback received and plan to submit my assignment this weekend to receive more detailed feedback from my instructor. I am also integrating connections to this project into my electronic portfolio, further demonstrating the practical application of my studies.

Checkpoint	Software Design and Engineering	Algorithms and Data Structures	Databases
Name of Artifact Used	**Artifact name:** gpiointerrupt.c **Origin:** CS 350: Emerging Systems Architectures and Technologies	**Artifact name:** BufferOverflow.cpp **Origin:** CS 405: Secure Coding	**Artifact name:** AnimalShelter.py **Origin:** CS 340: Advanced Programming Concepts
Status of Initial Enhancement	Improvements finalizing	Improvements finalizing	Planned but has not been finalized
Submission Status	Finalized with instructor feedback	Planned but has not been finalized	Planned but has not been finalized
Status of Final Enhancement	Finalized with instructor feedback	Planned but has not been finalized	Planned but not yet completed
Uploaded to ePortfolio	Planned but has not been finalized	Planned but has not been finalized	Planned but has not been finalized
Status of Finalized ePortfolio	Planned but has not been finalized	Planned but has not been finalized	Planned but has not been finalized

References

Swed, K. (2023, October 30). *What Is a Software Engineer? | Skills and Career Paths*.

ComputerScience.org. Retrieved July 26, 2024, from

https://www.computerscience.org/careers/software-engineer/