**Career Choice and Artifact Update**

Cydnie Fisher

Southern New Hampshire University

CS-499 Computer Science Capstone

Professor Mike Alesso

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**Change in Career Path**

When I originally started my bachelor’s in computer science, my career goal was to become a video game developer. Playing video games is an activity that I have enjoyed since I was young, and I would love to help create that joy for other people. While I still think this would be a great career path for me, and I still plan on learning video game development on my own, I have become increasingly more interested in machine learning (ML), and would like to have a career pertaining to it. This career goal change is partially due to artificial intelligence (AI) increasingly becoming more of a focal point in tech and becoming further integrated into our everyday lives. This is also due to taking CS370, where I researched ML and AI and had the opportunity to train multiple AI agents.

**How Thinking About My Career Has Evolved**

When initially deciding on a career path, I wanted to choose a career in a field that I have been passionate about for the majority of my life. Throughout obtaining my degree, I was introduced to many concepts entirely new to me. Due to this, I started to look into other career paths and discovered that I enjoy learning about ML and AI.

**Researching My Choice of Career**

I have conducted some basic research on both career paths, and plan to do a lot more research. I also plan to teach myself concepts regarding each career path, and will use this knowledge to build up my portfolio. I have also started to look into master’s degrees pertaining to ML, since a master’s is usually the base level of education expected.

**Course Outcomes**

**Completed:**

* Employ strategies for building collaborative environments that enable diverse audiences to support organizational decision making in the field of computer science.
  + This was completed in the first enhancement category.
* Design, develop, and deliver professional-quality oral, written, and visual communications that are coherent, technically sound, and appropriately adapted to specific audiences and contexts.
  + This was completed by completing my video code review, and will be further completed with my ePortfolio.
* Design and evaluate computing solutions that solve a given problem using algorithmic principles and computer science practices and standards appropriate to its solution, while managing the trade-offs involved in design choices.
  + This was completed in the second enhancement category.

**Remaining:**

* Demonstrate an ability to use well-founded and innovative techniques, skills, and tools in computing practices for the purpose of implementing computer solutions that deliver value and accomplish industry-specific goals
* Develop a security mindset that anticipates adversarial exploits in software architecture and designs to expose potential vulnerabilities, mitigate design flaws, and ensure privacy and enhanced security of data and resources

## Status Checkpoints for All Categories

| **Checkpoint** | **Software Design and Engineering** | **Algorithms and Data Structures** | **Databases** |
| --- | --- | --- | --- |
| **Name of Artifact Used** | **Artifact name:**  Project Two  **Origin:**  IT145 Foundations in App Development | **Artifact name:**  Project Two  **Origin:**  IT145 Foundations in App Development | **Artifact name:**  Project Two  **Origin:**  IT145 Foundations in App Development |
| **Status of Initial Enhancement** | Enhancements completed | Enhancements completed | Planned, but not started |
| **Submission Status** | Submitted | Submitted | Not submitted |
| **Status of Final Enhancement** | Started | Not started | Not started |
| **Uploaded to ePortfolio** | Not uploaded | Not uploaded | Not uploaded |
| **Status of Finalized ePortfolio** | Created, not completed | Created, not completed | Created, not completed |