Bibek Shrestha

CS-499 Science Capstone

**Journal: Career Choice and Artifact Update**

I have always had a strong interest in computer science since I have a natural curiosity about how computers operates and functions. Although this field has always been an important interest of mine, my specific area of focus has changed over time. I first became interested to Java, but I eventually became more interested about data science and mobile app development. I am actively learning from YouTube lessons while improving my knowledge with further Udemy Academy courses to improve my skills in these areas. Besides my interest, I am understanding that a career in computer science is respected and promising.

Over time, my knowledge of this field has increased considerably. My interest started with simple programs like Notepad, MS Paint, and simple games. I then gradually progressed on to learning HTML, C, Python, and Java. Through a variety of assignments and projects in my academic courses, I am always improving my technical skills. But there is still a lot to learn, and I am always looking to learn more.

I have already carefully investigated the benefits and limitations of my areas of study, mainly data science and Java. Speaking with experienced seniors and elders in the field has also given me useful information. My decision to further expand my skills by pursuing a master’s degree after completing my undergraduate studies has been supported by this.

I have so far achieved a few important course outcomes, such as understanding database management, operating systems, web development, mobile app development, 3D modeling and graphics, and several programming languages. I am very happy of the products and applications I have created, including 3D models of real objects, Android mobile apps which utilize gravity sensors and event tracking, and an Animal Shelter database app. Despite all this achievement, I am determined to discover what the future offers as I know I still have a lot to learn.

**Status Checkpoints for All Categories**

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| --- | --- | --- | --- |
| Checkpoint | Software Design and Engineering | Algorithms and Data Structures | Databases |
| Name of Artifact Used | Event Tracking App | Gravity Sensor App | Animal Shelter module |
| Status of Initial Enhancement | Debugged, proper commenting and structure | Proper commenting and structure | Code is reorganized to improve readability. |
| Submission Status | Submitted | pending | Submitted |
| Status of Final Enhancement | Done | working | working |
| Uploaded to ePortfolio | No | No | No |
| Status of Finalized ePortfolio | Undergoing | Undergoing | Undergoing |