**PART-1**

**Have you changed your career plans? If so, what prompted this change? If not, why have you remained with your original plan?**

I have not changed my plan of pursuing software development as my career. The reason behind this is that this career aligns with my skills and interests I have learned during my computer science program. The hands-on experience and knowledge gained during computer science program have reinforced my passion for software design and development.

**How has your thinking about your career evolved?**

There are many ways by which my thinking about my career has evolved:

* I have got in-depth understanding of complexities involve in software design and development. I have learned importance of foundational concepts like: algorithms, and data structure.
* I have understood that effective communication and collaboration is crucial for successful project completion and innovation.
* Applying theoretical knowledge to real-world application, I have learned the significance of practical skills in problem solving and critical thinking.

**Have you completed any research about your choice of career? How has this impacted your thinking? Have you thought about seeking an advanced degree or certification after earning your undergraduate degree?**

Yes, I have completed my research about software design and development as career. This research has:

* Highlighted the importance of staying updated in tech industry
* Confirmed the importance of strong problem-solving skills
* Confirmed the significance of working on complex tasks
* Highlighted the importance of soft skills like communication skills and collaboration skills.

Moreover, yes I have thought of seeking an advanced degree in software design and development after earning undergraduate degree.

**Which course outcomes have you achieved so far, and which ones remain?**

**Achieve outcomes**

1. 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.
2. 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.
3. 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.

**Remaining outcome**

1. Employ strategies for building collaborative environments that enable diverse audiences to support organizational decision-making in the field of computer science.
2. Design, develop, and deliver professional-quality oral, written, and visual communications that are coherent, technically sound, and appropriately adapted to specific audiences and contexts.

**Part 2**

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| --- | --- | --- | --- |
| **Checkpoint** | **Software design and engineering** | **Algorithms and data structures** | **Databases** |
| **Name of artifact used** | Task management system | Merge Sort visualization | Inventory Management system |
| **Status of initial enhancement** | Completed | Completed | Working |
| **Submission status** | Submitted | Not submitted | Not submitted |
| **Status of final enhancement** | Working | Working | Working |
| **Uploaded to eportfolio** | Not yet | Not yet | Not yet |
| **Status of finalized ePortfolio** | Completed | Completed | Completed |

**Software engineering and design**

**Update**

The enhancement required was addition of data. Data was added to the artifact as initial enhancement.

**Algorithms and data structures**

The project involves only completing the structure, there was no styling. As part of initial enhancement following is done:

* JAVA coding and styling is done
* Applied function to the file

**Databases**

The enhancement required was to create element and to make visualization. No work has been done as part of initial enhancement under this category.