CS-499 Module Five

Journal 5.1

Computer Science Trends and Artifact update

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One of the emerging trends now it the growth of Artificial Intelligence and the demand for

engineers who could perform proper prompts for AI and teach them to think and act like humans.

Machine Learning is in a very high demand and organizations are looking to build systems with

AI to mitigate risks and close loopholes. Another trend Quantum computing (QC) which is the

process of implementing super powerful computers to solve complex problems and it is useful in

financial industries, transportation and municipalities and more.

Part 1

* What is the significance of each trend?

Each of these trends are important in technology era and with the growth of technology the

security breach and attacks increase, and industries are implementing AI and QC to mitigate

these problems.

* How will each trend change the field of computer science?

AI significantly affected the Computer science field in the past few years and companies are

moving toward utilizing AI as their main source and that has caused for many jobs to be affected

and lost and that is jeopardizing peoples jobs and futures and frankly, it has become scary in the

job market. Quantum Computing, is very specialized technology and it is attracting engineers as

companies start moving toward building such large systems and computer science engineers are

trying to learn it to take advantage of future career opportunities.

* How will each trend change the experience of consumers, workers, or citizens?

The AI will simplify some functionalities for few years, but it could fire back if it is not learned

everything properly. So, it could be a hit or miss depending on how we use ML to interact with

AI, but Quantum Computing in general will increase security and privacy and eliminates or at

least lowers the chances of breaches and that should increase people’s trust toward organizations

and industries.

* How will each trend fit in with your career interest or aspirations?

I really like AI and Machine learning and very interested in taking advantage of this trend and

learn how to use ML to teach and improve AI and cybersecurity. That is why I am taking

cybersecurity courses to become expert in security and learning how to minimize system

vulnerabilities and improve the future use of AI.

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

I have been able to complete the Data Structure and Algorithms and mostly completed the

Software Design and Engineering so far and working on the Database assignment to complete

my milestones.

Part 2

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| | **Checkpoint** | **Software Design and Engineering** | **Algorithms and Data Structures** | **Databases** | | --- | --- | --- | --- | | **Name of Artifact Used** | **Artifact name:**  MainActivity  **Origin:** CS 360 Mobile Architect and Programming | **Artifact name:** Grazioso  **Origin:** IT-145  Foundation in Application Development | **Artifact name:**  Animal Shelter  **Origin:** CS 340  Client/Server Development | | **Status of Initial Enhancement** | Enhancements are submitted for review. | Enhancements are completed and submitted for review. | Enhancements not completed | | **Submission Status** | Initial work has been started and enhancement has been done with some changed to the initial artifact code. | Initial work has been completed and enhancement has been submitted to instructor for review. | Initial work and has been started but no enhancement has been submitted yet. | | **Status of Final Enhancement** | Currently in progress. I aim to implement more interactive and logical code .. | Completed the enhancement and submitted for review. | Planned but not yet completed | | **Uploaded to ePortfolio** | Not yet uploaded | Not yet uploaded | Not yet uploaded | | **Status of Finalized ePortfolio** | It is being worked on and will be ready for final review. | The finalized ePortfolio is not completed yet. | The finalized ePortfolio is not completed yet. | |