**5-1 Journal Computer Science Trends and Artifact Update**

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CS 499: Computer Science Capstone

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Throughout the computer science program, I explored different possibilities; with each course I either develop a completely new skill or strengthen acquired skill already. The career choices have been great as technology is evolving, we must adapt with market changes. As a computer programmer my career choices have been evolving with every job opportunity.

My career has progressed from desktop programming using VB 6.0 and Access to roles as a .NET ERP Developer, MS Dynamics Developer, and Web Application Developer, eventually advancing to my current position as a Senior Product Engineer.

Currently, I am focusing on two key areas: Cloud Engineering and Academic Research. Professionally, I aim to enhance my expertise by earning multiple cloud certifications from AWS and GCP to strengthen my skills in this domain. Additionally, I am dedicating time to deepening my understanding of Linear Algebra applications, particularly their practical implementations in technology. I recently started a new Linear Algebra course called “Coding The Matrix” with Brown university where we practice Linear Algebra concepts in python without library. Also, I’m aiming to get AWS Certified Solutions Architect – Associate as a starting point after I got AZURE-900.

My update on the project is working on the database side, as I want to migrate both projects to different databases. After this step, I will work on updating the code base.

**Status Checkpoints for All Categories**

**Artifact: Web Application (Pet Shelter)**

I finished all the necessary work on the project and provided a readme file to show the process of installing the dependencies and screenshots

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| --- | --- | --- | --- |
| **Checkpoint** | **Software Design and Engineering** | **Algorithms and Data Structures** | **Databases** |
| **Name of Artifact Used** | Pet Shelter |  |  |
| **Status of Initial Enhancement** | Done | Done | Done |
| **Submission Status** | Done | Done | Done |
| **Status of Final Enhancement** | Done | Done | Done |
| **Uploaded to ePortfolio** | Done | Done | Done |
| **Status of Finalized ePortfolio** | Planned | Planned | Planned |

**Artifact: Mobile Application**

**I finished the UI part and added the search, as the current moment I’m working on changing the current database to Firebase which involves refactoring the entire project again back.**

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| **Checkpoint** | **Software Design and Engineering** | **Algorithms and Data Structures** | **Databases** |
| **Name of Artifact Used** | Mobile App |  |  |
| **Status of Initial Enhancement** | In Progress | Done | In Progress |
| **Submission Status** | In Progress | In Progress | Work in Progress |
| **Status of Final Enhancement** | Not Completed | Not Completed | Not Completed |
| **Uploaded to ePortfolio** | Not Completed | Not Completed | Not Completed |
| **Status of Finalized ePortfolio** | Planned | Planned | Planned |