CS499

Mod3 - Journal

An ePortfolio is a powerful tool for self-promotion because it allows me to showcase my technical capabilities and personal growth in a structured and visually engaging format. When applying for jobs, it serves as a tangible supplement to my resume and cover letter, demonstrating not just what I claim to know, but actual projects that prove my competence. This is especially useful in interviews, where I can reference real code and enhancements that illustrate my problem-solving ability, understanding of design principles, and applied knowledge in algorithms and databases. A well-organized portfolio communicates my readiness to work in professional environments and provides a strong foundation for employers to assess both my skills and potential.

At this point, I have completed artifact enhancements in all three categories. For Software Design and Engineering, I used the CS405 Encryption Tool and refactored the user interface for better structure and usability. For Algorithms and Data Structures, I improved and am still improving the CS410 Permission System by optimizing permission lookups and using more efficient data structures. For Databases, I enhanced, and continue to enhance my CS465 MEAN Stack travel booking app by implementing better schema validation and role-based access. I’ve made good progress and hit all course outcomes related to software design, algorithmic thinking, security, communication, and the use of professional tools. My remaining tasks include finalizing the GitHub Pages portfolio and polishing narratives to ensure clarity and cohesion, doing many more touches and updates I am looking for across all artifacts.

**Status Checkpoints for All Categories**

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| --- | --- | --- | --- |
| **Checkpoint** | **Software Design and Engineering** | **Algorithms and Data Structures** | **Databases** |
| Name of Artifact Used | CS405 Encryption and Decryption System | CS410 Role-Based Permission System | CS465 MEAN Stack Travlr Getaways App |
| Status of Initial Enhancement | Completed: Refactored UI and modularized encryption logic | Completed: Improved algorithm efficiency and logic checks | Completed: Added schema validation, RBAC, admin filtering |
| Submission Status | Submitted with supporting narrative and code | Submitted with supporting narrative and code | Submitted with supporting narrative and code |
| Status of Final Enhancement | Final polish in progress; added tests and UI cleanup | Finalized with additional code comments and diagrams | Finalized with error handling and UX notes |
| Uploaded to ePortfolio | Uploading sample products | Uploading sample products | Uploading sample products |
| Status of Finalized ePortfolio | In progress | In progress | In progress |