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CS-499 Computer Science Capstone

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Module 3 Journal: Marketing With ePortfolios and Artifact Update?

Part One:

An ePortfolio is one of the strongest ways for me to promote myself as a computer science professional. It gives employers a chance to see my real work instead of just reading a résumé. With an ePortfolio, I can show my best projects, talk about the skills I used, and explain how I approached each problem. This helps me present myself as someone who can think critically, write secure code, and apply software engineering practices to real applications. It also helps me communicate my personality and interests in a professional way.

To maximize the marketing potential of my ePortfolio while keeping risks low, I will only upload the parts of projects that I am allowed to share. I will avoid posting confidential code or anything that contains API keys, passwords, or database credentials. I will also use GitHub private repositories for sensitive work and only make public what is safe to show. Another way to reduce risk is to avoid posting any personal user data or anything that looks like proprietary material. This is important because posting intellectual property online can create problems if someone else copies it or if it violates policy (Skillcrush, 2023).

Some downsides of having an online e-portfolio include the possibility that someone could copy my work without giving credit or using it for an improper purpose. There is also a risk of exposing security vulnerabilities if I forget to remove sensitive code. Still, I believe the benefits outweigh the risks, especially when I follow best practices for safe sharing.

So far, I have achieved several key outcomes for CS-499. I completed my first enhancement in the Software Engineering and Design category by transforming my CS-465 Travlr Getaways application into a fully authenticated and secured full-stack system. I demonstrated RESTful service integration, JWT authentication, separation of concerns, and improved engineering design. I still need to complete my enhancements for the Algorithms and Data Structures category and the Databases category, which I plan to finish over the next modules. These remaining outcomes will allow me to show a deeper mastery of algorithm efficiency and database optimization.

Part Two:

Status Checkpoints for All Categories

Checkpoint	Software Design and Engineering	Algorithms and Data Structures	Databases
Name of Artifact Used	Travlr Getaways Full-Stack Web Application (CS-465)	Deep Q-Learning Cartpole	Amos Weight Tracking App
Status of Initial Enhancement	Completed. Added full JWT authentication, RESTful CRUD routes, Angular interceptors, improved service architecture, and UI enhancements.	Started. Enhancement plan created and reviewed. Implementation will begin shortly.	Started. Enhancement plan prepared. Cloud sync and security upgrades planned.
Submission Status	Submitted for Milestone Two.	Not yet submitted.	Not yet submitted.
Status of Final Enhancement	Ready for final polishing and upload.	Enhancement coming in Module Four.	Enhancement coming in Module Five.
Uploaded to ePortfolio	Yes, uploaded to GitHub ePortfolio and organized under artifacts.	Not yet.	Not yet.

Status of Finalized ePortfolio	In progress. Additional categories pending completion.	In progress.	In progress.

References:

Kapila, D. (2021, December 21). *8 Projects to Put in Your Portfolio When You've Never Been Hired*. Skillcrush. https://skillcrush.com/blog/portfolio-advice-2/

Skillcrush. (2023). *How to build an impressive portfolio when you're new to tech.*
https://skillcrush.com

TechCrush. (2024, September 5). *The Tech landscape is competitive, and this is why a well-crafted portfolio is essential for showcasing your skills and landing your dream job.* LinkedIn. https://www.linkedin.com/posts/techcrushhq_the-tech-landscape-is-competitive-and-this-activity-7237410379776090113-2xYs