**Omar Obaidi**

**CS 499 – Computer Science Capstone**  
**Instructor: Dr. Bhandari**  
**Southern New Hampshire University**  
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**Professional Self-Assessment**

My academic journey through the Computer Science program at Southern New Hampshire University has been both challenging and transformative. Over the past several years, I have developed the technical, analytical, and professional skills necessary to succeed as a software engineer. This program has given me the opportunity to combine my problem-solving mindset with hands-on technical experience, allowing me to grow from a student into a confident, industry-ready developer. Balancing my career at Apple with full-time coursework has taught me the importance of time management, persistence, and attention to detail—qualities that now define the way I approach engineering projects.

Throughout my studies, I have strengthened my ability to design, build, and enhance complex systems while following modern development practices. My capstone artifact, **Travlr Getaways**, represents this growth across all major areas of software development. It demonstrates my understanding of full-stack engineering, database design, algorithmic thinking, and secure coding principles. For the **Software Design and Engineering** outcome, I refactored the project’s structure using the MVC pattern, implemented secure environment variables, and improved error handling to produce maintainable, professional-quality code. For the **Algorithms and Data Structures** outcome, I optimized server logic and database queries for efficiency and scalability. Finally, for the **Databases** outcome, I enhanced the Mongoose schemas to include field validation, relationships, and improved data integrity. Together, these enhancements showcase my ability to engineer reliable, well-structured applications that meet industry standards.

This program has also helped me grow as a communicator and collaborator. I have learned how to present technical information clearly through documentation, diagrams, and recorded demonstrations such as my final project video. Working on projects like Travlr Getaways and the AI Checkers application reinforced the value of testing, version control, and peer review in maintaining software quality. Each milestone encouraged me to think critically, refine my approach, and adopt a professional engineering mindset focused on quality and security.

As I prepare to graduate, I am confident that the knowledge and experience I have gained will serve as a strong foundation for my career. My next goal is to pursue a full-time role in software development or quality assurance where I can apply my skills in web technologies, API design, and secure application architecture. With over six years of experience at Apple and a strong technical education from SNHU, I am eager to continue learning, innovating, and contributing to meaningful projects that improve people’s lives through technology.