The artifact I selected for my ePortfolio is Travlr Getaways. Its a full-stack web application designed to give users a perfect travel booking experience for customers and includes an administrative interface for managing bookings, customers, and trips. I created this project in the previous semester Summer 2025. It demonstrates the use of the MEAN stack (MongoDB, Express, Angular, and Node.js) which is good for developing scalable, dynamic and user-friendly applications. I chose the Travlr Getaways artifact for my ePortfolio because it shows my skills in full-stack web development. This includes designing innate user interfaces, implementation of secure data management, and making the connection of front-end and back-end systems. The Trip Listing component is part of the Angular front end that displays different travel packages through the use of the TripCard component. The unaltered version of Travlr Getaways was simple because it only looped through an array of trips and displayed them on the page.

Travlr Getaways was the perfect choice of artifact for my ePortfolio because it shows my skills in algorithms and data structures. This enhancement shows how I can use arrays and filtering logic to make both the functionality and the user experience better. I added a search bar that allows users to filter trips by name or resort, a maximum price filter that limits results by budget, and an empty state message that appears when no trips match the search or filter. These improvements required me to write filtering algorithms that check both text and numeric conditions at the same time, which shows my ability to apply algorithmic thinking to real-world problems.

The enhancements I made meet the course outcomes I decided on back in Module One, for designing solutions using algorithmic principles. I do not need to make updates to my coverage plan because this artifact now shows exactly the skills I wanted to display. Through this process I learned how even small algorithmic changes can make a big difference in how useful and professional a project feels. One of the challenges I had was data types. The perPerson field in the trip data was stored as a string. To fix this I had to convert it into a number before doing price comparisons. Solving this problem helped me become more aware of how to manage data types and logic.