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CS-499

Artifact 1 Narrative

The artifact I picked for my ePortfolio is a React-based website application that began as a simple ePortfolio during my junior year when I required a digital presence to apply for internships. This app, built using React, lacks complexity and backend security features. It was created to clearly demonstrate my academic and professional achievements. As my studies proceeded and I gained more knowledge, I recognized that I could considerably improve this artifact for my CS499 capstone project.

I chose this item for my ePortfolio since it evolved from a simple static site to a dynamic, secure, and highly usable portfolio component. The inclusion of this artifact indicates my capacity to develop and enhance software solutions over time. I redesigned the entire architecture to ensure scalability and efficiency by integrating numerous course materials and using Next.js for increased component rendering. These additions not only strengthened the portfolio, but also demonstrated my expertise in software design, frontend programming, and backend security.

Reflecting on the process of improving this artifact, I faced a number of hurdles and learning opportunities. I learned the value of scalability and effective data management in web applications. Using comments from peers and professors, I worked to improve the component organization, responsiveness, and overall user experience. The project necessitated thorough consideration of design concepts and user interface improvements, which expanded my knowledge of frontend programming best practices.

Through this product, I partially satisfied course objectives in software design and engineering, frontend programming with React and Next.js, and user interface optimization. However, issues such as ensuring smooth integration of new components and sustaining performance across several devices provided continuous learning opportunities. Overall, improving this artifact was

a great experience that not only strengthened my technical abilities but also prepared me to face complicated software engineering issues in the future.