Laisha Ramos

CS499

4/10/2024

Journal 6

Emerging technologies like Application Programming Interfaces (APIs) and Augmented Reality (AR) are reshaping the landscape of computer science and professional careers. APIs serve as bridges between different software programs, enabling seamless integration and communication. Developers leverage APIs to access code information from existing apps through API calls, facilitating the exchange of data and functionalities. This integration capability is pivotal in modern software development, driving efficiency and connectivity across diverse systems.

On the other hand, Augmented Reality (AR) offers immersive experiences by overlaying digital information onto the physical world. AR enhances human perception by integrating computer-generated sensory inputs across visual, auditory, haptic, and other modalities. This technology has diverse applications, from interactive gaming experiences to practical solutions in fields like healthcare, education, and manufacturing. AR's ability to blend digital and physical realms opens new possibilities for communication, training, and entertainment.

In the realm of computer science, proficiency in APIs and AR development has become increasingly valuable. Understanding APIs is essential for software engineers and developers, as APIs facilitate interoperability and system integration. Mastery of AR development skills enables professionals to create innovative applications and experiences, driving advancements in user experience design and immersive technology research.

Moreover, the impacts of APIs and AR extend beyond computer science to encompass broader societal implications. APIs foster collaboration and productivity by enabling interconnected ecosystems of applications, benefiting businesses and communities alike. AR technologies enhance human interaction with the physical world, offering new avenues for remote assistance, education, and communication. These technologies have the potential to revolutionize various industries, fostering global connections and transforming how people perceive and interact with their environment.

I've finished making my final enhancements and I'm preparing to upload them to my portfolio this week. However, I'm encountering an issue with uploading due to the large size of the zip file. I'm currently working on figuring out how to resize it so that I can successfully upload it to my portfolio.

## Status Checkpoints for All Categories

| Checkpoint | Software Design and Engineering | Algorithms and Data Structures | Databases |
|---|---|---|---|
| Name of Artifact Used | ✕ | ✕ | ✕ |
| Status of Initial Enhancement | ✕ | ✕ | ✕ |
| Submission Status | ✕ | ✕ | ✕ |
| Status of Final Enhancement | ✕ | ✕ | ✕ |
| Uploaded to ePortfolio | ✕ | ✕ | ✕ |
| Status of Finalized ePortfolio | | | |

Citation

Chomko, R. (n.d.). *What's an API and Why is it Important?* ZDNet.

    https://www.zdnet.com/article/whats-an-api-and-why-is-it-important/

Xiong, J., Hsiang, E.-L., He, Z., Zhan, T., & Wu, S.-T. (2021). Augmented reality and virtual

    reality displays: emerging technologies and future perspectives. *Light: Science &*

    *Applications*, *10*(1). https://doi.org/10.1038/s41377-021-00658-8

Theodoropoulos, A., & Lepouras, G. (2021). Augmented Reality and programming education: A

    systematic review. *International Journal of Child-Computer Interaction*, *30*, 100335.

    https://doi.org/10.1016/j.ijcci.2021.100335

Thehubops. (2023, May 30). *Application Programming Interfaces (APIs) have become an*

    *integral part of modern software…*. Medium.

    https://medium.com/@thehubops/application-programming-interfaces-apis-have-become-

    an-integral-part-of-modern-software-cb8b1d5324ba