

Research Assignment
08/31/2023

The opportunity to review and learn topics of software development and engineering has been given to me in the form of this research assignment. The first article I had presented remarks upon the processes of decentralized applications, or dApps for short. These “sophisticated” blockchain managed applications are viewed as the future of software applications, as they consist of user based hosting personal information instead of it being held in a server. Becoming knowledgeable on the existence of dApps would increase my productivity as a developer, as when constructing an app, the solution of a dApp would prove its worth based on the type of function my application holds. Although the security of dApps are notable, I disagree with the efficiency of this method, as the timely process to construct a correct smart contract and have it compiled would negate the minimal increase of security and protection when compared to regular applications. In addition, the problem of traffic through third party services whenever accessing an app is easily solved with use of a vpn, which secures the connection between an individual's home device and the server that the application is held on. This vpn solution would also achieve the same effect of security when compared to a Web 3.0 application. Although this bias consists of the topic of dApps, I do recognize its place in the future with certain transaction based applications, as security of digital wallets are important to protect from a data breach.

[Annotations](#)

The second article I had the opportunity to view regarded artificial intelligence and its common misconception of taking over programming jobs. This article felt highly important as my entire future would be dependent on artificial intelligence and its efforts to provide answers to prompts of programmers. My pre - knowledge of artificial intelligence only consisted of small amounts of machine learning information as well as the memorization of news headlines of breakthroughs and conspiracies, the perspective of this article now influencing a new perspective of the safezone of programming in artificial intelligence. To summarize the points of the article, the takeover of artificial intelligence would stop at the specificity of prompts of software developers, as the main distinction between AI and individuals is their ability to learn and specifically complete a task. Although this distinction of AI being slightly more obsolete in the grand scheme of programming, I disagree with the statement that AI will not take over jobs, as the specificity of a prompt would only be solved by the mass input of data pertaining to or having relation to the prompt, and the concurrent mass inclusion of data constantly into artificial intelligence would prove the statement to not be immutable, but only temporary.

[Annotations](#)

Both articles gave me further insight into my career choice, one being the fundamentals of decentralized applications, which are smart - contract based blockchain applications that hold users information locally, and the other giving me insight on artificial intelligence and its linking

to software development: the specificity of its prompts needed, its efficiency in the UI of programming languages, and its efficiency of automation in programming.