**SEN 407 Assignment**

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**How has Software development changed in the past 20 years?**

* **Processing power:** The processing power of software has increased tremendously in the past 20 years, far past what anyone at the time would have imagined.
* **Abstraction:** In the last 20 years, abstraction has made it so we have lost touch of how many layers deep that the actual bits of data are moving around.
* **The Internet:** Nowadays, the internet is hundreds of times faster and cheaper compared to back then.
* **Mobile development:** Mobile app development has played a big part in software development, requiring new frameworks and design considerations.
* **Cloud computing:** cloud computing platforms like AWS, microsoft azure and google cloud have revolutionized how software is deployed and managed, providing on-demand access to computing power and eliminating the need for large, dedicated hardware infrastructure.

* **Agile methodologies:** Traditional waterfall development has been largely replaced by agile approaches like Scrum and Kanban, emphasizing iterative development, flexibility, and collaboration between teams to deliver software faster and more efficiently.
* **AI and Machine Learning:** The increasing adoption of AI and ML algorithms in software development enables features like predictive analytics, personalized experiences, and automated decision-making.
* **Micro-services Architecture:** Breaking down complex applications into smaller, independent services (micro-services) allows for greater scalability, maintainability, and faster development cycles.