***Angel Williams IT2A***

***Research on Web Development.***

1. *Research the top three current technologies or programming languages used for each of the five software components of full stack web development by market share.*

The top three current programming languages used for each of the five software components of full stack web development by market share are as follows: JavaScript which is a multitasking language, mostly used in backend development. It is the best language for full-stack web development as it can run directly in web browsers, has a large support community, it is used for both back-end and front-end development. Python is an open-source programming language and is the second most popular language for full-stack web development due to its simplicity, readability and extensive libraries. Ruby this dynamic and expressive programming language has multiple features that makes it the third best language for full-stack web development. The framework ‘Ruby on Rails’ allows efficient development at a fast pace, it has a beginner-friendly code syntax, promotes efficient code organization. Additionally Ruby's strong focus on developer happiness and its thriving community contribute to its popularity and viability for full-stack development.

1. Add one new technology or programming language that is predicted to be the amazing new thing in the near future.

Based on studies, one programming language that is predicted to be amazing in the near future is Go, also known as Golang. It is known for its maturity and valued for its micro-services, and cloud-based applications. It is simple, efficient and has a strong support. However, there is another programming language following closely behind. Mojo, an upcoming language designed for AI (Artificial Intelligence) and ML (Machine Learning) using a combination of Python C++ and Rust has been gaining more attention as of late. Though still in the early stages, it shows signs of becoming a rising star, attracting the attention from developers and organizations looking to accelerate AI workloads. So far, however, Go seems to be in the lead and may be there for a while.

References

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