10 Top Trends of Software Industry

The fast-paced digital transformation influences all life spheres including business, healthcare, IT & software, manufacturing, travel, and entertainment. Every day people use AI-enabled programs like Gmail, Google predictive searches, and personalized product recommendations even without noticing this. Many logistics and manufacturing companies are already using robotics to automate operations and optimize costs. Everyone has heard of cryptocurrencies that were a new approach when Bitcoin was launched in 2009. Now, almost 11 years later, there are over a thousand of them. Mobile apps, online shops, social networks have become irreplaceable tools to buy, sell, and promote goods/services. This shows the impact of software development trends the economies have been following.

Here are 10 software development trends that will take the center stage in 2020-2021:

1. Cloud Services

The global public cloud services revenue forecast by Gartner's report was $214.3 billion in 2019 and $249.8 billion for 2020 and there are valid reasons to agree with it. According to another report, there are nearly 61% of companies currently use the cloud's platform as a service (PaaS) for developing and testing applications. Consult any popular software outsourcing company and you would know how an exponentially increasing number of enterprises are willing to spend on cloud services. One of the possible reasons for this trend is the cloud becoming affordable for enterprises of all sizes. Besides, the reliability and safety it promises to encourage more businesses and organizations to go for it. 2020 is experiencing a major shift in the enterprise workload to the cloud.

2. Software Development Outsourcing

IT outsourcing is not a new trend but due to the kind of recognition it is garnering year after year, it needs a mention in this list. According to this report from Statista, the global outsourcing market from 2000-2018 acquired a value of $85.6 billion. One of the top reasons for the trend being consistently popular is the accessibility to skilled global talent, while cost control is another reason to hire an IT outsourcing company. Several countries in Asia, like India and China, and Latin America, like Argentina and Mexico, are among the top outsourcing destinations that continue to offer all great benefits of the trend.
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3. Internet of Things (IoT)

IoT growth is one of the main technology trends in 2020. By connecting sensors, devices, machines, vehicles, has a great impact on our world. IoT helps in leveraging various advantages, allowing companies to collect large data amounts, expedite different processes, prevent equipment breakdown, ensuring inventory management without losses, and reduce operating costs.

4. Artificial Intelligence

Quick growth is primarily explained by factors like increasing big data amounts, accelerating cloud usage, increasing demand for workflow automation, and the wide adoption of exclusive digital assistants. There are various AI applications: robots, chatbots, machine learning algorithms, image/text recognition software, data filtering, data analytics, sales forecasting, etc. AI provides organizations with numerous benefits, allowing them to automatically streamline operations, minimize costs, increased productivity, better customer service, boost performance, etc. Furthermore, AI has already been employed in art and content generation. Yet today, artificial intelligence can create pictures and generate beautiful images.

5. Blockchain

While nobody knew what blockchain was until its appearance as the technology behind Bitcoin, now it's being widely adopted in various areas. Representing a decentralized digital data record, it provides safe information storage and enables secure transactions without third parties. Although it may seem that blockchain solutions are mainly used in banking and finance, their applications spread across almost every sector. Healthcare, logistics, insurance, agriculture, real estate, manufacturing, automotive, stock trading, crowdfunding, etc. are those industries that can benefit from using them

6. Big Data

Increasing big data employment is one of the top technology trends of 2020. Allowing to capture, store, analyze, and visualize large amounts of raw and unstructured data, they transform it into valuable information. Data can be taken from almost everywhere: emails, smart devices, web/mobile apps, social media channels, reviews, surveys, corporate sources, online archives, etc.

Being used in different businesses, big data processing tools can provide benefits like predictive analytics, efficient risk management, deep insights into customer behavior, enhanced lead generation, increased advertising campaigns, customer experience management, etc.

7. Immersive Technologies

Representing the incorporation of real and virtual worlds, combining both AR (Augmented Reality) and VR (Virtual Reality), Mixed Reality forms immersive environments with either visible or digital objects interacting in real-time. Combining AR & VR new-age technologies, Mixed Reality is revolutionizing industries such as entertainment, simulation-based learning, art, healthcare, retail, remote working, historical reconstruction, and military training.

8. Low-code Development

Writing big chunks of codes not only adds to the development times but also puts the businesses on hold. Though it is not a well-known trend at present, low-code development is anticipated to become a preferred approach in the next few months. The trending ideas give you the right hints on how to invest in software development services outsourcing to build a great product that would be beneficial to your enterprise, end-users, and customers. Make sure that you maintain the pace with the evolving technologies.

9. Multi-platform UI Development

At times when a software solution for multiple platforms (web, iOS, Android) has to be developed, the multi-platform UI development approach works. Frameworks such as React Native, Xamarin, Flutter makes it possible to build cross-platform solutions. Such an approach to frontend development promotes re-usability, reduces time-to-market, and delivers time for all the platforms.

10. Voice-Enabled Solutions

Voice assistants like Siri, Google Assistant, Alexa introduce a new way to how humans interact with digital devices. With their growing popularity amongst users, especially the millennials, the integration of voice assistants with software applications or skill development has become a much-adopted trend.

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