BYTE QUEST

Vasavi College of Engineering

Department of Computer Science and Engineering

February 30, 2018
Volume 50

Contents:

Byte Quest is the article published by the CSE dept of Vasavi College of Engineering regarding the latest innovative Technologies and Software that have been emerged in the competitive world. The motto of this article is to update the people regarding the improvement in technology. The article is designed by the active participation of students under the guidance of faculty coordinators.

☐ Good, bad or indifferent if you are not investing in new technology, you are going to be left behind.

-Philip Green

☐ Once a new technology rolls over you, if you're not part of the steamroller, you're part of the road.

-Stewart Brand

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COMPUTER-AUGUMENTED ENVIRONMENTS

Virtual reality is an invaluable approach to certain applications such as entertainment and education. In regard to everyday tasks however, virtual reality cuts human beings off from the real world. Computers can be used to augment the real world, which is an opposite approach to virtual reality. In this way, computers can be used for applications such as infra-red optical sound, heat, motion and light detectors; activating motors, storing data, driving actuators, controls and valves; and for creating spaces in which everyday objects have electronic properties without loss of their familiar physical properties. These computer-augmented environments merge electronic systems into the physical world instead of attempting to replace the physical by using the artificial world.

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CRYPTOCURRENCY

 A crypto currency is a digital asset designed to work as a medium of exchange using Cryptography to secure the transactions and to control the creation of additional units of the currency. Advantages are highly portable and durable, low inflation and collapse risk, globally accepted, decentralized and Programmable.

We have many types of cryptocurrencies of which Bitcoin, Ethereum, Ripple, Litecoin, Monero etc are few. Bitcoin is both a cryptocurrency and an electronic payment system, decentralized payment Network and a completely open source and there are 21 million Bitcoins. The BLOCK CHAIN is a shared public ledger on which the entire Bitcoin network relies. A Transaction is the transfer of values between Bitcoin wallets that gets included in the block chain. These wallets keep the Secret piece of data called a private key which is used to sign transactions providing a mathematical proof that they have come from the owner of the wallet.

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TOP 5 PROGRAMMING LANGUAGES TO LEARN IN 2019

The Top 5 Programming Languages to learn in 2019:

1. Python
2. GO
3. JavaScript
4. Swift
5. Scala
   Importance Of Python:
   1. Web Development
   2. Data Analytics
   3. Science and Numeric purposes
   4. ERP progress
   5. Game Development

Importance Of GO: Go's growing usage is anticipated, because of its lightweight, open source language revised for today's microservice designs. Go is also obtaining ground in data science.

Importance Of JavaScript: Although JavaScript is fundamentally a front-end language run on the browser, it can also be practised on the server-side throughout Node.js to create scalable network

Node.js is congenial with Linux, SunOS, Mac OS X and Windows. JavaScript has an accepting, compliant syntax and works over all major browsers, it is one of the favourable programming languages for beginners.
Use cases: Websites like WordPress, LinkedIn, Amazon, Microsoft etc utilise JavaScript language.

Importance Of Swift: Swift is a comprehensive purpose language which was generated by Apple for applications that are applied to their multiple operating systems. Swift is assuredly the best programming language to learn if aspirants liked to acquire or work with Apple programs and applications. Although it was only published four years ago, in 2014, the demand for Swift developers has increased exponentially. It is now one of the most popularly used languages in the world, and aspirants job prospects will be bright if one decides to learn it.

Importance Of Scala: Scala implements functional programming assistance and strong static type system, which makes it an excellent general purpose programming language.

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