

# COMPUTER VILLAGE

INSPIRED BY STL JOBS CLINTON PEABODY

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This newsletter is about the evolution of the job market. Today's market is influenced heavily by companies using the *digital transformation* model to increase productivity and profitability. Listed below are some of today's buzz terms to help us understand the vernacular used in today's employment conversation. Make no mistake STEM highly influences the job market. *What recent studies have made increasingly apparent is that the greatest numbers of high-paying, STEM jobs are in the "T" (specifically computing technology).* Here is the list of definitions, and following the list is in an overview of the article, "10 IT Jobs That Will Be In Demand 2020". Alison DeNisco Rayome wrote in her December 1, 2017 article, "that as artificial intelligence, virtual reality, and IoT devices make their way into the enterprise, several new IT jobs will grow in popularity in the coming years".-Computer Village

## Article Terminology

- Life Sciences: all sciences that have to do with 'organisms', like plants, animals and human beings
- Physical sciences: the sciences concerned with the study of inanimate natural objects, including physics, chemistry, astronomy, and related subjects.
- Digital transformation: companies with a comprehensive strategy to implement changes in these areas, paper reduction, online training, using data analytics for risk management, sales prediction, social media, and IT automation.
- Augmented reality: (AR) a technology that superimposes a computer-generated image on a user's view of the real world, thus providing a composite view. In other words it looks real.
- Virtual reality: (VR) is an interactive computer-generated experience taking place within a simulated environment. A person using virtual reality equipment is able to "look around" the artificial world, move around in it, and interact with virtual features or items.
- Computing technology: The process of utilizing computer technology to complete a task. It may involve computer hardware and/or software, but must involve some form of a computer system.

*Industry job search experts state digital transformation is the future of the focus in IT roles, such as artificial intelligence (AI), augmented and virtual reality (AR and VR), and the Internet of Things (IoT).*

- Demand for tech works will continue to grow at a pace unmatched by other industries such as stack developer.
- A mix of tech and business skills will be required for nearly every position.
- Job roles that were defined and standardized are being redefined or even eliminated.

## **The 10 IT Jobs That Experts Predict Will Be In High Demand In 2020.**

### **1. Computer Vision Engineer**

Demand for computer vision engineers has grown steadily since 2013, according to Indeed

data. These professionals build and improve computer vision and machine learning algorithms and analytics to detect, classify, and track objects.



### **2. Machine Learning Engineer**

Machine learning engineers are advanced programmers who develop AI machines and systems that can learn and apply knowledge. These professionals perform sophisticated programming, working with complex datasets and algorithms to train these systems.

### **3. Network Analyst**

Businesses are investing more heavily in their networks as IoT enters the workplace. "More and more things are going to need to be connected in an efficient way, and that's going to be a major driver of demand there," said Forrester researcher Nate Meneer.

### **5. Cloud Engineer**

As the vast majority of companies move important systems to the cloud, more and more are choosing a hybrid approach, with multiple vendors. In the coming years, cloud engineers will develop solutions at scale that are a mix of both in-house technology and outside systems -- going beyond Amazon engineers working on AWS or Microsoft engineers working on Azure.

## **6. App Developer**

Across both end users and vendors, app developers will be in large demand in 2020.

## **7. Business Intelligence (BI) Analyst**

BI analysts gather data from a number of sources, include internal software, competitor information, and industry trends, to develop a sense of where the company stands in the industry and how they can both grow and cut costs.

## **8. Devops Lead**

As more app developers and business analysts come on board, DevOps teams will also need to be expanded to oversee and coordinate work between those groups.

## **9. Database Administrator**

Database administrators will become more in-demand by 2020, particularly as companies move toward more software offerings that include AI, and the ability to create AI-powered models.

## **10. User Support Specialist**

As technology becomes deeply integrated into the operations of business units, more employees will need assistance from support specialists, especially as the workforce transitions.

## **RESOURCES**

<https://www.zdnet.com/article/the-10-it-jobs-that-will-be-most-in-demand-in-2020/>

<http://www.fractal.org/Life-Science-Technology/Definition.htm>

[https://en.wikipedia.org/wiki/Outline\\_of\\_physical\\_science](https://en.wikipedia.org/wiki/Outline_of_physical_science)

<https://www.zdnet.com/article/survey-despite-steady-growth-in-digital-transformation-initiatives-companies-face-budget-and-buy-in/>



**Computer Village  
Executive Director, Don Holt**

Don has been on the battle field for youth development and education for over 30 years. Retirement from Xerox only gave him more time for his passion. Don Holt is an “Unsung Hero” and advocate for youth, education and the black community.

**Congratulations** to 23 years as Executive Director of Computer Village. Thank you for being a visionary and an aspiration in our community.

“Don continues to stress the importance of IoT as a major component for the growth of young people associated with job stability and economic success in our community.”



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