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December 2022



Why technology and why now?

If you've been paying attention to LinkedIn and job postings in the last couple of years, you've probably noticed that tech jobs are everywhere. It seems like almost every organization, even in the most traditional sectors, is hiring for tech roles.

What's so attractive about technology as a career path? The average salary for tech workers is high compared with other fields, and companies try to lure potential tech employees with additional benefit packages. The growth rates for coding jobs are

climbing steadily, projected to reach 20-30% growth by 2030.

The tech industry is competitive but it's becoming much more attainable to get your foot in the door thanks to bootcamps and certificate programs. For many jobs, a college degree isn't required, you only need to demonstrate coding skills. Once you're in, you can basically design your career path and move between different roles.

Fortunately, it doesn't take a college degree to jumpstart your technology career! You can learn all the skills you need here at Global Information Technology. We are here to help and serve – always!

Technologies gaining the most traction going into 2023

What are the most important trends that business leaders should be prepared for? Read on for the top four essential tech trends you should be following in 2023.

1. AI Everywhere

In 2023, artificial intelligence will become real in organizations. No-code AI, with its easy drag-and-drop interfaces, will enable any business to leverage its power to create more intelligent products and services.

Contactless, autonomous shopping and delivery will also be a huge trend for 2023. AI will make it easier for consumers to pay for and receive goods and services.





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AI will also augment nearly every job in every business process across industries. More retailers will use AI to manage and automate the complex inventory management processes that happen behind the scenes, so convenience trends like buy-online-pickup-at-curbside (BOPAC), buy-online-pickup-in-store (BOPIS), and buy-online-return-in-store (BORIS), will become standard.

2. Parts of the Metaverse Will Become Real

Experts predict that the metaverse will add \$5 trillion to the global economy by 2030, and 2023 will be the year that

defines the direction of the metaverse for the next decade.

Augmented reality (AR) and virtual reality (VR) technology will continue to advance. One area to watch is the work environment in the metaverse — in 2023, I predict that we'll have more immersive meeting environments where we can talk, brainstorm, and co-create together.

In fact, Microsoft and Nvidia are already developing metaverse platforms for collaborating on digital projects. We'll also see more advanced avatar technology in the new year. An

avatar — the presence we project as we engage with other users in the metaverse — could look exactly like we do in the real world, and motion capture will even enable our avatars to adopt our unique body language and gestures.

We also might see further development in AI-enabled autonomous avatars that can act as our representatives in the metaverse, even if we're not logged into the digital world.

Companies are already using metaverse technology like AR and VR to conduct training and onboarding, and this trend will accelerate in 2023. Consulting giant Accenture has already created a metaverse environment called the Nth Floor. This virtual world features replicas of real-world Accenture offices, so new hires and current employees can carry out HR-related tasks without needing to be present in a physical office.



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3. Progress in Web3

Blockchain technology will also advance significantly in 2023 as companies create more decentralized products and services.

Non-fungible tokens (NFTs) will become more usable and practical in the new year. For example, NFT tickets to concerts will potentially give you access to backstage experiences and memorabilia. NFTs might be the keys we use to interact with many of the digital products and services we buy, or they could represent contracts we enter into with other parties.

4. Bridging the Digital and Physical World

We're already seeing an emerging bridge between the digital and physical worlds, and this trend will continue in 2023. There are two components of this merger: digital twin technology and 3D printing.

Digital twins are virtual simulations of real-world processes, operations, or products that can be used to test new ideas in a safe digital environment. Designers and engineers are using digital twins to recreate physical objects inside virtual worlds, so they can test under every conceivable condition without the high costs of real-life

experiments. In 2023, we'll see even more digital twins, from factories to machinery to cars to precision healthcare.

After testing in the virtual world, engineers can tweak and edit components, then create them in the real-world using 3D printing technology.

For example, Formula 1 teams currently collect data transmitted from sensors during races, as well as race track temperatures and weather conditions, to see how cars change during races. Then they stream the data from the sensors to digital twins of the engines and car components and run scenarios to make design changes on the fly. The teams then 3D print car parts based on the results of their testing.





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Career Guide

Quick & to the point – Career Advice

Question: “Help. I struggle during interviews when they ask me why I should be hired for the position. What should I say here?”

– Brian Gwenonski

Answer: I hear you - this can be a tough one if not prepared. Try these three things:

1. Show that you have skills and experience to do the job and deliver great results. You never know what other candidates offer to the company. But you know you: emphasize your key skills, strengths, talents, work experience, and professional achievements that are fundamental to getting great things done on this position.
2. Highlight that you'll fit in and be a great addition to the team. Show the interviewer that you have corresponding personal and professional traits that make you a great addition to the team. At larger companies,

departments and their staff vary greatly. Marketing people are different from IT specialists. Identify the company's culture and the department's characteristic features and tell the interviewer how you will fit in.

3. Describe how hiring you will make their life easier and help them achieve more. Determine what problems they had so far, what new issues or goals they have now, and how your specific skills and experience can come in handy. Scour the company's website and social media channels to research their roadmap and history. Google their media mentions and case studies. Reread the job ad you applied to. Use this information to guide your answer.

We could go on-and-on, but the gist of it is right here. Regardless, you got this!

– Andrei



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Fun & Interesting Facts about Technology

Did you know?

- Every iPhone advertisement has the time set to 9:41. This is the time that Steve Jobs announced the very first iPhone in 2007.
- Every second, around 6,000 tweets are tweeted on Twitter, which corresponds to over 350,000 tweets sent per minute, 500 million tweets per day and around 200 billion tweets per year.
- The name Google was created accidentally, it was originally supposed to be named 'Googol'. (Googol is the digit 1 followed by 100 zeroes). The founders checked to see if that domain name was taken, but accidentally searched for 'google.com' instead of 'googol.com'. They liked that name even better and registered the domain name on September 15, 1997.

VETERANS, GET READY TO POWER YOUR TECH FUTURE AT GLOBAL IT

Global Information Technology (Global IT) is approved by the Department of Veteran Affairs to receive Veterans benefits. We accept Chapter 33 Post 9/11 GI Bill®, Chapter 30 Montgomery GI Bill® for Active Duty, Ch 31 Vocational Rehabilitation and Employment (VR&E), Vet Tec, and VRRAP. Whether you are serving or have already served, Global Information Technology is here to work with you to start your IT career. These benefits may cover up to 100% of tuition and fees and housing allowance, courseware, and other training-related costs as well. For more information about your specific benefits in regards to your service, call 248-557- 2480 to set up an appointment with one of our School Certified Officers (SCO) (career advisors) or complete the inquiry form at <https://www.global-itech.com/va-program/>.

GIT thought Provoking corner



"Successful people maintain a positive focus in life no matter what is going on around them. They stay focused on their past successes rather than their past failures, and on the next action steps they need to take to get them closer to the fulfillment of their goals rather than all the other distractions that life presents to them."

- Jack Canfield

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Top 10 IT certifications that will be in demand in 2023

Why Do You Need IT Certifications In 2023?

Before exploring the list of IT certifications, let's understand how they will help you.

IT certifications from good institutes strengthen your portfolio and increase your chances of getting hired. Certificates help you receive 15-20% more money than others. IT certifications showcase you as an expert in your field.

Top 10 IT Certifications You Should Get In 2023

Here's the list of the top 10 IT certifications that will help strengthen your portfolio, enhance your skills, and stand out from the crowd:

1. Certified Computing Professional (CCP)

During COVID, when businesses operated remotely, IT professionals had the most crucial (and challenging) role — they had to ensure frictionless



networking between company-wide systems with complete data security. After COVID, the situation isn't that different. While most businesses work from the office, some still operate remotely or on a hybrid model. However, there's a spike in IT jobs — the worldwide full-time employment in the ICT sector is projected to reach 62 million in 2023.

To kickstart your journey in IT in 2023, CCP is one of your best options. CCP gives you an upper hand over other candidates when applying for an IT job.

Several institutes offer this certification. Choose the best one based on your specialization, which includes (but is not limited to):

- Business information systems
- Data resource management
- Management
- Microcomputing and networks
- Procedural programming
- Software engineering
- Systems programming
- Systems security
- BASIC language
- C++ language



But regardless of which certification you choose, you'll be well on your way to a successful IT career.

3. Data Science Expert

Data science has been widely

popular among professionals over the past few years. It's expected to grow by 2x in the next 5 years.

A data science certification can help professionals with a background in computer science or programming get their foot in the door. For data scientist certification, you can choose from various online courses. Many are free or offer a discounted rate for those who want a more in-depth look at

data science.

What to consider while looking at a data science certification?

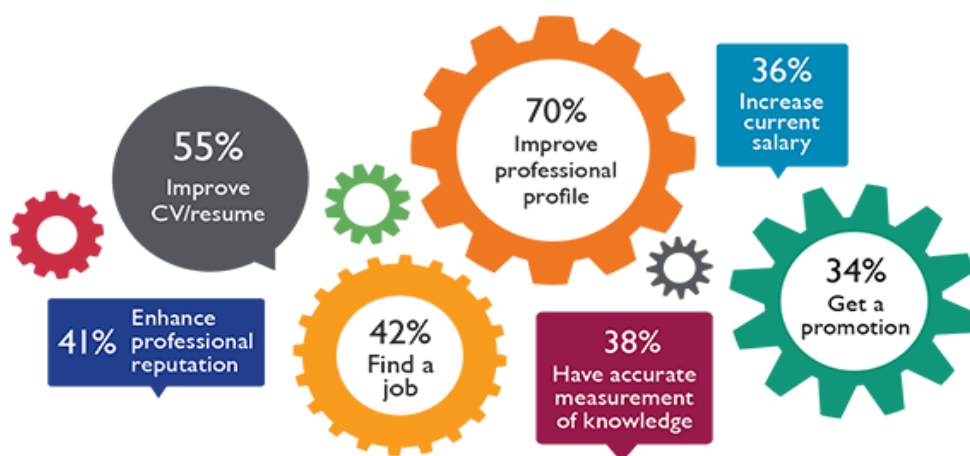
- Data Science Program Content
- Overall Cost of the Program
- Prerequisites Knowledge or Qualification Criteria
- Total Course Duration
- Student's Review Of the Program

4. Database Administrator (DBA)





Why pursue IT certification?



responsible for planning, managing, and maintaining databases. The demand for skilled DBAs will likely increase as companies look to integrate their new technologies with existing data.

The salary of a skilled and knowledgeable database administrator is highly lucrative. DBA certification validates your ability to create, manage, and administer databases and can help you surpass other candidates.

Microsoft, Oracle, and IBM are

prominent players in database certification.

You can consider the following DBA certifications:

- Microsoft Certified:
Azure Database Administrator Associate
- Oracle Certified Professional
- IBM Certified Administrator – Db2
- SAP HANA Certification

Please note: the cost and duration of the certification can vary.

5. Network Engineer

Demand for network engineers will likely remain high as companies continue implementing more technologies that rely on networks, such as autonomous vehicles and IoT devices.

Many companies are upgrading their networks to support 5G, which is expected to be 10x faster than current network speeds.

It is estimated that the global network engineering services market will grow by 76.3 USD by 2027.

Network engineers will be increasingly in demand in the future as baby boomers retire and fewer people enter the field. Here are some Network Engineering Certifications you can look for:

- Microsoft Certified:
Azure Network Engineer Associate Certification
- Cisco Certified Network Associate (CCNA)
- Cisco Certified Network Professional (CCNP)
- Citrix Certified Associate



Wireshark Network Analyst

- AWS Certified Advanced Networking
- Google Certified Professional Cloud Architect

6. Cloud Engineer

The demand for cloud engineers will likely increase with the increasing cloud technology adoption. For instance, the Cloud computing industry is expected to grow by 1 trillion USD by 2030.

The cloud engineer certification is a good choice for those with a programming or networking background who want to explore cloud computing.

The prominent players operating in the global cloud computing market are Adobe Inc., Amazon.com Inc., Google LLC, Microsoft Corporation, Oracle Corporation, etc.

Here is the top-ranked Cloud Certifications list:

- Amazon Web Services Solutions Architect – Associate
- Microsoft Certified: Azure Fundamentals
- Google Associate Cloud Engineer
- IBM Certified Technical Advocate – Cloud v3
- Certificate of Cloud Security Knowledge (CCSK)

7. Android Developer

The demand for Android developers will likely grow as customers excessively use mobile devices.

Worldwide, there are nearly 7.26 billion (with 2.7 billion Android users) mobile users, leading to a boom in software development roles geared toward mobile platforms.

A typical Android developer job posting includes:

- Android app development experience.
- BA in Computer Science, Engineering, or a related field.





- Excellent communication skills and team player.
- Object-oriented concepts and design patterns knowledge.
- Knowledge of Android APIs and Flutter.
- Experienced in web services, JSON, and XML.
- Unit-testing experience.

There are a few organizations that offer Android developer certifications. The required amount of experience varies among organizations.

8. Windows

Development Expert

Windows developers continue to grow as Microsoft expands its platform. Technologies such as the Internet of Things, artificial intelligence, and blockchain depend on Windows. This certification will test your ability to use the core development tools and languages for creating Windows applications.

9. Project Management

IT project management is a demanding profession that

requires a specific skill set. Whether you're just starting in IT or a seasoned pro, getting a Project Management certification can help you take your career to the next level. There are also many other project management certifications, like Certified ScrumMaster (CSM) certification, offered by Scrum Alliance, and the Agile Certified Practitioner (ACP) certification, offered by the Project Management Institute.

No matter which certification you choose, there is no better way to show potential employers that you have the skills and experience to be a successful project manager.

10. Cyber Security

A growing industry like cyber security always needs skilled professionals. With the constantly evolving threats and the need to protect sensitive data, organizations are always on the hunt for cybersecurity experts.

There are multiple cybersecurity certification

programs available online.

Here are a few of them:

- Certified Information Systems Security Professional (CISSP)
- Certified Information Systems Auditor (CISA)
- Certified Information Security Manager (CISM)
- Certified Ethical Hacker (CEH)

Please ensure choosing a reputed organization and a course that teaches cyber security basics — from identifying threats to implementing countermeasures tailored to your industry.

Takeaway

Information technology is an ever-evolving field. New technologies emerge, and existing technologies continue to advance, making it essential for IT professionals to stay updated with the latest trends. When deciding which certification is best for you, exploring the gaps between the trending and your current skill set is essential.