

12 IT skills that employers cannot refuse

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Employment in the information technology (IT) industry in the US has not only declined as previous pessimistic forecasts, but on the contrary, recruitment demand is still very large. In other parts of the world, the situation is similar, the IT talent market is still very 'hot' but the problem is that job applicants must have appropriate skills. If you want to join this recruitment wave, see what those skills are. Eight experts - including employers, vocational program editors, computer science professors, corporate administrators - summarized in *Computerworld* newspaper 12 most necessary IT skills that job seekers need .

1. Understanding computers

When companies build spam filtering software and detect phishing, creating huge data mountains, the demand for IT professionals with deep knowledge of computers suddenly skyrocketed. People with computer knowledge not only understand the operation mechanism of the machine, but also have the ability to design and develop algorithms (*algorithms*) and techniques to improve the operation of the system. Kevin Scott, Google's senior technology manager, says the fundamental problem is how you will organize the data and present them. This skill involves data mining, statistical operation modeling and database structure. Scott said: ' *The way you organize the data and the algorithms you use will determine whether you get a reasonable solution .* '

Computer knowledge can be accumulated through work or through school learning, but no matter what, mastering this knowledge quickly is an advantage.

2. The mobile application

According to Sean Ebner, senior vice president of professional services for Spherion Pacific Enterprises in Florida, the content creation race for mobile devices is in full swing like the early days of the Internet in the 1990s. , along with the popularization of smart mobile phones such as Blackberry, Treo, O2 . So companies are in need of IT professionals who are able to bring applications of enterprise resource management (ERP), accounting . on mobile devices.

3. Wireless network

Wireless data transfer protocols such as Wi-Fi, WiMAX, Bluetooth . have become indispensable tools for the netizens community. Since then, the management's top concern is how to recruit IT professionals who can ensure data safety and ensure the smooth operation of the network. According to Neil Hopkins, Vice President of Skills Development for Computing Technology Association (CompTIA), the concern of enterprise managers is how to connect wireless network protocols together and take risks. security is increasing very fast due to the use

of wireless networks. ' *If I recruit a wireless network specialist, I want him to understand the potential security risks and build control measures from the beginning,* ' said Howard Schmidt, President Hiep. Information Security Safety Association and the eBay Group's main security strategist. Hopkins, however, advises not to step into the labor market with a wireless technology certificate because no one will hire a pure 'wireless' technician. What the market needs is network management skills plus a deep understanding of wireless technology, which means knowing how wireless networks will work when connected to computer networks in general.

4. Human-computer interface

The need for *human-computer interaction (human-computer interaction)* design is neatly said that the user interface for all web applications is very urgent. " *Thanks to companies like Apple Inc., consumers are increasingly aware of beautiful products, impressive designs, so IT professionals can't just know the technology* ," Scott said.



5. Project management

IT project managers are always and wherever necessary, but now the requirements of employers for this position are much more demanding. According to Grant Gordon, Managing Director of Intronic Solutions Group in Kansas, the market needs 'second-hand' project managers, not those with qualifications, that is, skills and experience in handling different situations, such as internal conflicts within the team working around technology issues. ' *Companies need people who are capable of leading a team of professionals, making full use of the project's lifecycle effectiveness and true project management skills* ,' Gordon said.

6. Network skills in general

According to Scott, no matter where you work in IT, you can't stand outside the 'network'. Therefore, it is imperative that 'out-of-network' specialists such as software engineers must also have a basic understanding of computer networks, such as TCP / IP, Ethernet, fiber optic . and have *working knowledge* about online distribution and calculation methods.

7. Technicians converge the network

According to Hopkins, the fact that companies use more and more phones on the Internet (VoIP) gives rise to the need for network administrators to know all types of networks - LAN, WAN, Voice, Internet. . - and how to converge them. Hopkins said: '*Our research shows that demand is increasing for mobile professionals with an in-depth understanding of IT networks, as well as IT administrators who understand the telephone network and how connect them .*'

8. Open source

According to Ebner, corporate executives are increasingly interested in finding *open-source* experts, capable of programming both operating systems and applications. Those with Linux, Apache, MySQL and PHP experience - collectively called LAMP - won't have to worry about underemployment. According to Scott Saunders, Dean of DeVry University's Department of Employment Services in California, '*consumer dissatisfaction and worries about computer security have spurred open-source booms, particularly in operating system and database fields*' .

9. Enterprise information system

Like it or not, in this fierce competition, businesses intend to build a *business intelligence (BI)* system. According to Ebner, the demand for recruitment is increasing for those who are capable of BI technologies such as Cognos, Business Object and Hyperion and the ability to apply those technologies to business operations. '*Companies are investing heavily in BI. But they do not need the technical experts who merely know how to compose the question (query) or code (script). In order to become a talented data collector, you need in-depth knowledge of the type of business you will be working for* , 'Ebner said.

10. Security anytime, anywhere

Computer security experts always need it, but today, according to Schmidt, businesses need professionals with security and security skills in all IT fields, not just professionals who work hard. take care to ensure network safety. '*Enterprises find people who can build a safe environment, whether it is an email system manager or a software developer* ,' Schmidt said. According to him, this trend reflects the phenomenon of integrating security and security into all day-to-day operations of the business rather than viewing security as an extra part of a security professional's responsibility. Therefore, every IT professional who wants to find a job must have an understanding of security and security in his or her field. Hopkins commented: '*The feedback from market research companies shows that security and security skills are needed in everyone, everything; even an apprentice technician must know about security*' . According to Saunders of DeVry University, DeVry has built a textbook on IT security to teach at all branches of the school in the United States. "*Companies are increasingly interested in protecting their assets against cyberterrorism attacks and internal threats,*" he said.

11. Digital technology roof

Families are becoming more and more high *-tech* "harbors" thanks to the popularity of sound technology, digital imaging, security protection, and even lighting and power distribution technology. Advanced quality. Who will

install, operate and maintain this technology? According to Hopkins, ' *Long*
Then we see the most dynamic market, the specialist market for digital home technology '.

12. .Net, C #, C ++ and Java

There was a misconception that programmers only needed to master programming languages ??and techniques and could get a job. The demand for skilled programmers for application and programming languages ??such as ASP.Net, VB.Net, XML, PHP, Java, C # and C ++ is still high but according to Hopkins, ' *employers are not want to hire coder people all day sitting quietly behind the computer. They want people who are familiar with Java but are also members of a team, a group leader or project coordinator* '.

Compare the above knowledge and skills with yourself. If you find your 'weakness', this is the time for you to actively prepare for investment in studying, researching and training for your future career in IT.

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