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If you are a classroom wizard when it comes to solving math problems, have been tinkering with the computer ever since you could spell “computer,” or if your idea of a good Sunday afternoon is watching re-runs of Big Bang Theory or reading Dilbert, then you probably don’t have to spend sleepless nights worrying about which college major to choose. Congratulations, for you are probably a perfect match for a computer science degree! And if you’re wondering what you can do with a computer science degree, here are a few exciting careers that you might choose.

Software engineering: Computer software engineering is one of the more popular occupations among graduates of computer degree programs. Computer software engineers are responsible for designing and developing software that makes computers perform specific tasks. There are two main categories of computer software engineers—applications software engineers and systems software engineers. Since the use of computer applications is so widespread, software engineers can find employment in a variety of industries.

Programming: Although the terms “computer programming” and “software engineering” are often used interchangeably, there are subtle differences between the two roles. While software engineers design software, programmers convert that design into logical code that actually makes the software work. Programmers write programs using various programming languages like C#, C++, .NET, Java, etc. and are also responsible for repairing broken code and updating existing programs.

Network and system administration: These professionals design, install, and maintain an organization’s computer systems. They are entrusted with the responsibility of deploying network hardware and software on employee systems; ensuring uninterrupted network connectivity; and troubleshooting problems whenever they arise.

Database administration: Database administrators, or DBAs, are responsible for the design, implementation, maintenance, storage, and repair of an organization’s databases. Their job is to ensure the optimum performance of the company’s databases and design, as well as to implement improvement strategies. They work closely with systems administrators, software developers, and other technology staff of an organization.

Information security specialists: This is one of the most important IT jobs, given the increased threat from cyber-attacks that modern-age computer systems face. Computer security specialists, also known as information security specialists, have the crucial job of ensuring the security of an organization’s information systems and preventing access by unauthorized and destructive forces. To protect their company’s information systems, information security specialists install and monitor security software; train users on how to ensure their computer’s security; spread awareness about the importance of maintaining systems security; and respond to security breaches.

Telecommunication specialists: These professionals are responsible for designing, installing, and maintaining audio, visual, or data communication systems. They are also responsible for diagnosing and repairing problems with communication equipment.

Web development: Web developers create web applications by using the various software languages and tools at their disposal. They may be responsible only for the back-end technical aspects of web development or can be involved with creating the front-end layout and design of a website. Web developers also maintain and enhance the performance of existing applications.

If any of the above careers sound exciting to you, then a computer science degree is just what the doctor ordered. Now that computer science degrees are available with a variety of academic emphases, such as programming and networking, you can get an even more focused education and be on your way to the possibility of a dream career!

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[MichaelB](#) - About Author:

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