

Marshawn Rand

Ms. McCoy

IT Concepts for Beginners IT1025

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Software Developer

Software developers are the creative minds behind computer programs. Some develop the applications that allow people to do specific tasks on a computer or another device. Others develop the underlying systems that run the devices or control networks. Some people consider potentially becoming a software developer as a possible career path when thinking about what they should become in the future. There are good reasons why to become a software developer. For instance, becoming a software developer would give these people the option to work remotely, to obtain good pay, gain economic benefits, and not to mention that becoming a software developer can also act as a creative outlet for anyone.

The job of a software developer would have a person do a number of things that include recommending software upgrades for a customer's existing programs and systems, designing each piece of an application or system and plan how the pieces will work together, creating a variety of models and diagrams (such as flowcharts) that show programmers the software code needed for an application, ensuring that a program continues to function normally through software maintenance and testing, documenting every aspect of an application or system as a

reference for future maintenance and upgrades, and collaborating with other computer specialists to create optimum software. That also not mentioning that they would also have to analyze a user's needs and then design, test, and develop software to meet those needs.

Software developers are responsible for the entire development process of a software program. They usually begin by asking how the customer plans to use the software, so they can identify the core functions that the user needs from the software programs. Software developers must also determine other user requirements that are not related to how the software functions, such as the needs of security and performance.

Developers have to go back to the design process if the program does not work or if testers find the program to be too difficult to use which is more often than not. After the program is officially released to the customer, a developer can then perform upgrades and maintenance on said program.

Normally the developer designs the program and then give instructions to programmers, who write computer code and test it. Developers usually work closely with computer programmers. However, with some companies, developers also write code themselves instead of giving instructions to programmers.

Some developers supervise a software project from the planning stages through implementation. These types of developers are sometimes are called information technology project managers or IT project managers. These workers monitor the project's progress to ensure that it meets deadlines, standards, and cost targets. IT project managers who plan and direct an

organization's IT department or IT policies are included in the profile on computer and information systems managers.

The different types of software developers are applications software developers and systems software developers. Applications software developers design computer applications, such as word processors and games, for consumers. They can create custom software for a specific customer or commercial software to be sold to the general public. Some applications software developers create complex databases for organizations. Some also create programs that people use over the Internet and within a company's intranet. Applications software developers have a median salary of \$101,790. On the other hand, Systems software developers create systems that keep computers functioning properly. These could be operating systems for computers that the general public buys or systems built specifically for an organization. Often, systems software developers also build the system's interface, which is what allows users to interact with the computer. Systems software developers create the operating systems that control most of the consumer electronics in use today, including those used by cell phones and cars. Systems software developers make more than an applications software developer. A systems software developer median salary is \$107,600.

To become a software developer a person at the least would need a bachelor's degree. They would also need skills such as problem solving, teamwork, analytical skills, strategic skills, and intrinsic motivation.

There is going to be an increasing demand for the position of software developer in the future and many other occupations that are computer related. This is because the future holds all sorts of technology that will need people to help create and help others with this new technology.

Summarize topic and scope of research

Software engineers design, develop, and test software and applications for computers.

Identify and cite resources

- <https://collegegrad.com/careers/software-developers>
- <https://flaviocopes.com/good-reasons-become-software-developer/>
- <https://www.rasmussen.edu/degrees/technology/blog/what-does-software-developer-do/>

Discussion of research (3-5 double spaced pages)

Conclusion: future considerations and / or challenges

I have wrote this research paper because I have considered myself about being a software developer in the future.