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TEAM #74177U



SOFTWARE ENGINEERING

VEX IQ STEM Career Readiness Online Challenge
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SOFTWARE ENGINEERING

There are many careers in STEM. However, one always catches my eye. I am intrigued by the way computers can listen to people and do everything that is asked. This creation was design by software engineers. This is an amazing field in STEM and establishes a helpful tool for those around us. I am drawn to this career because it is exhilarating to think that whenever a question pops up, answers come easily. Electronics are such an essential part of our world today. Software engineering has been beneficial by giving me needed directions from destination A to destination B and answering questions which will assist me to become successful. This field of Stem benefits all ages and can be used to educate numerous people.



26.4 MILLION

SOFTWARE ENGINEERS IN THE WORLD
(2019)

Software Engineering is an amazing career. There are many “pros” to this job. Software Engineers make about \$110,878 plus a \$400 cash bonus per year. They mainly work around 40 hours a week. This is the same as average job. It is a career that upholds many benefits and life skills. However, to gain a job in Software Engineering, a few skills and/or degrees are needed. The company might look for a degree in computer science, software engineering, or any related field of Stem. The employee should also be extremely proficient in math. This is an essential skill because coding goes hand and hand with math. The engineer will need skills such as teamwork, communication skills, creativity, and attention to detail. They will also need be familiar with database management. These skills are essential to being successful in the Software Engineering world.



SKILLS, DEGREES, AND SALARIES

MARISSA MAYER

Software Engineer

My biggest influence in Software Engineering is Marissa Mayer. Mayer was gifted in math and science and has done many amazing things with her life. She makes me believe I can do anything I put my mind to. Mayer was the first female employee for Google and the turning point for Yahoo. Before her many successes, she attended Stanford University and got a Bachelors degree in Symbolic Systems and a Masters degree in computer science. She had a strong desire to learn about Artificial Intelligence and Computer Science. She shows me and others that women can do the same job as men; no matter what is thrown at them.



INFLUENCES

Picture from:
britannica.com



Many people don't know the difference between Software Engineers and Developers. However, there is a short and simple difference between them that is often confused.

SOFTWARE ENGINEER

Typically has a bachelors or masters degree in computer science and does more planning and design.

SOFTWARE DEVELOPER

Doesn't always have a college degree and focuses more on coding.

- 6:50 AM - Wake up and get ready for the day
- 8:15 AM - Drive to work
- 8:45 AM - Start computer, and get snacks/water for the day
- 8:48 AM - Open necessary tabs
- 9:09 AM - Standup (communicating with team members and designing)
- 10:00 AM - Meeting with team and client
- 11:00 AM - Phone call
- 11:15 AM - Walking break
- 11:30 AM - Software engineering
- 12:30 PM - Lunch
- 1:00 PM - Integration testing
- 2:00 PM - Meeting
- 2:15 PM - Software engineering
- 5:00 PM - Wrap up and go home



A DAY IN THE LIFE OF A SOFTWARE ENGINEER

Software Engineering is constantly changing and improving. I predict amazing things for the future. There will soon be flying cars, robots, and so much more. It is an amazing tool for humans to rely on. I also predict many more females will be working in Software Engineering. As stated above, Mayer is showing many people women can do amazing things as well as men. Additionally, as humans continue to rely on Software Engineering more people will work in the field. I think in a few years, Software Engineering will be an incredibly large field. There are already increasing numbers of people accomplishing the task of becoming a Software Engineer. In 2019, there were 26.4 million Software Engineers. There is a prediction of 45 million Software Engineers in 2030. This shows growth and increasing interest in the field of Software Engineering.



Picture from Canva.com



Robotics is helping me accomplish my goal of becoming a software engineer. When I learn how to code, program, and design software I will be very successful in my dream field. I will also develop more grit and be able to accomplish anything my heart desires. This is how I plan on pursuing my career.

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Entry Title: Software Engineering

Entrant's team number: 74177U

Entrant: Amanda Pressman