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Introduction to Computer Science

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Fields Report

Since the beginning of electronic computing in the 1940’s, the computer science industry has been advancing at a startling rate. Computer science is the study of computers and computing concepts that focuses mainly on the efficient programming of computers. Computer science can be considered the “umbrella term” that includes a wide range of other specialties, like hardware, software, and information systems.

Computer science has strong connection to a slew of other disciplines as well. There are many problems in science, engineering, healthcare, security, and business that can effectively be solved using computers. Computer science concepts and theories can be applied to different areas of these disciplines in order to make these jobs easier and more efficient. For example, the field of healthcare utilizes the science of computers to make it easier than ever to sift through an abundance of research to get to the core of an issue.

Information technology, on the other hand, is a field of computer science which refers to the development and maintenance of computer systems and software. It involves the installation, maintenance, and organization of computer systems. The responsibilities of someone who specializes in the field of IT include managing databases and maintaining and keeping computer networks up and running. Almost every business nowadays has an IT department that is responsible for managing the company’s data and maintaining its networks and computing systems. For example, the IT department at a school might be responsible for fixing any issues related to the basic operation of computers.

Software engineering is a branch of computer science that plays a central role in almost every aspect of daily life. Software can be thought of like a set of instructions for a computing system to follow. Without software, most computers would be completely useless. For example, a computer’s operating system, like Windows, MacOS, or Linux, is a type of software that tells your computer how to execute applications, schedule tasks, and carry out other basic functions.

It is important to understand the effect that the field of computer science has on other disciplines. In a world where technology is becoming an increasingly crucial part of our everyday lives, it is important to stay up to date on all of the newest advances in computer technology, as computer science is a tool that can be used by anybody in any discipline to make things easier.