



Computer scientists are experts in computers and computational systems. They differ from electrical and computer engineers, as they are interested in software and software systems, including the theory, design, development and application of software and software systems. Computer scientists are well versed in the areas of artificial intelligence, computer systems and networks, security, database systems, human computer interaction, vision and graphics, numerical analysis, programming languages, software engineering, bioinformatics and theory of computing.



Possible Career Options

- Data Scientist
- Programmer or Software Developer
- Software Architect
- Systems Analyst
- Database Administrator
- Software Engineer
- Computer Systems and Network Manager



Possible Employers

- Data Scientist
- Programmer or Software Developer
- Software Architect
- Systems Analyst
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Skills Required

- Proficiency in oral and written communications
- Detail-oriented
- Ability to organize, analyze and interpret numerical data
- Creative approach to problem solving
- Critical thinking skills
- Ability to interpret data
- Ability to work independently or as part of a team
- Ability to concentrate for long periods of time



Personal Attributes

- Achievement-oriented
- Capacity for detail and order
- Capacity for analytical and logical thinking
- Patient
- Capacity for precision
- Thorough
- Skills with numbers
- Resourceful
- Have integrity



Ways to Get Experience

- Doing an internship
- Working part-time or volunteering in an engineering firm
- Volunteering as a research assistant in a university's computer engineering department
- Joining a professional organization or related student club