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This project was supported by the Cybersecurity and IT Pathways grant from the Florida Department of Education through Cyber Florida, project number 291-1231C-2C001, funding authority 84.425C-D CRRSA ACT ESSER II 84.425D & GEER II 84.425C, FAIN#: S425C210052. More information at cyberflorida.org/pathways/

**Terms and Definitions**

Chapter 3 Careers in Information Technology

The Chapter Terms and Definitions was written for the Florida Public School System DIGITAL INFORMATION TECHNOLOGY (8207310) course. Funded by the Cyber/IT Pathways Program, Cyber Florida, and the Florida Department of Education.

# Chapter 3 Careers in Information Technology

| **Term** | **Definition** |
| --- | --- |
| Back-end Developer | Programmers who create linkages between software applications and databases |
| Business Analyst | Person responsible for managing information and synthesizing it to understand what decisions to take in the company |
| Cloud Specialist | Individuals who can advise businesses on cloud computing solutions |
| Computer | A programmable computing device capable of receiving input, manipulating data, and outputting information |
| Computer Forensic | Collection and preservation of evidence from computers for presentation in courts of law |
| Cybersecurity | Field of IT that encompasses the security of information technology using policies and procedures |
| Data | Representation of facts in a formalized manner suitable for communication, interpretation, or processing by humans or by automatic means |
| Data Architect | Person who develops the systems involved in data capture, storage, and analysis |
| Data Management | Ensure data security, reliability, and accuracy of data |
| Data Modeler | Person responsible for analyzing data and identifying relationships that can improve databases |
| Database | Software to store and retrieve structured data |
| Email Administrator | Person responsible for maintaining an organization’s email systems |
| Embedded Developer | Software developers who create software for non-PC devices; embedded software is written specifically with a device in mind |
| Front-end Developer | Programmers who create user interfaces that people interact with when they open applications and focus on the user experience |
| Hardware | The physical and often modular components of a computer system |
| Information Technology | Any equipment or system responsible for data manipulation; also refers to the disciplines of science and engineering that interact with these systems and data |
| IT Support | Individuals who provide technical support to resolve issues related to computers, phones, networks, printers, and related devices |
| Keyboard | A physical or digital device capable of communicating with a connected computer system through assigned key inputs |
| Network Manager | Person responsible for a firm’s network architecture |
| Networks | Computers that are connected through either wired or wireless means with the purpose of sharing data |
| Non-PC Devices | Commonly referred to as embedded systems, these are devices that contain computer hardware but are developed and programed for specific functions |
| Programming Language | An integrated set of commands used to write software |
| Project Management | The efficient coordination of a business’s resources to accomplish its objectives |
| Smartphone | A small form factor computer combined with a mobile phone based around touch screen input |
| Soft Skills | Skills related to human interaction and reaction though communication and perception |
| Software | Instructions that computer hardware can interpret and execute in order to achieve desired tasks |
| Support Engineer | Engineers who develop, maintain, and troubleshoot software and hardware used within an organization |
| Support Manager | Person focused on helping end users with computer resources |
| System | Separate components working together to fulfill a function |
| Systems Administrator | Person responsible for implementation, maintenance, and security of a firm’s computers |
| Tablet Computer | Larger and more powerful mobile computer than a smartphone |
| User Interface | Any medium that allows users to interact with computers |
| User Manager | Person responsible for managing computer privileges given to individuals within the organization |