Career Options After Computer Engineering: Follow the Trend: 2020

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Software Developer:

Software Developers are constantly in high demand in the IT sector. They focus in multiple programming languages like C, C++, C#, Java, JavaScript, Python, Ruby, Perl, Scala, and more. Software Developers make inventive software programs and applications with unique functionalities that cater to specific customer requirements.

Full Stack Developer:

Full Stack Developers are mainly concerned with programming and coding. They design and create the drawing, designing for websites by holding to standard HTML/CSS tradition and according to client stipulation and demands. They must also maintain suitable software documentation. Full Stack Developers must be capable in both graphic design and computer programming.

Blockchain Engineer/Developer:

Blockchain Engineer/Developer are software specialists who specialize in Blockchain Technology. Blockchain Engineer/Developer handle and manage the complete life cycles of Blockchain applications, from research and investigation to their design and execution. They use a mixture of various Blockchain programming languages (Simplicity, Solidity, Rholang, JavaScript, C++, etc.) to make superior interfaces, features, and structural design for Blockchain systems. Blockchain Engineer/Developer are again set up

the required infrastructure for Blockchain applications and solutions, Blockchain Engineer/Developer also set up important security measures to defend the systems from cyber attacks and also to establish paradigm work practices. Blockchain Engineer/Developer must have knowledge of Blockchain architecture, Data Structures, cryptography, smart contract development, and web development.

Artificial Intelligence/Machine Learning Engineer:

Artificial Intelligence/Machine Learning Engineers are refined AI/ML specialists who specialize in designing and building intelligent machines and systems that can learn from experience, predict future references and perform human-like tasks with minimal or no human direction. They generate advanced AI/ML algorithms that can teach computers how to execute specific tasks without being explicitly programmed for the same. Also, Artificial Intelligence/Machine Learning Engineers develop state-of-the-art AI/ML and Deep Learning systems and run various ML tests and experiments to innovate unique AI-powered machines. Artificial Intelligence/Machine Learning Engineers are one of the most required after professionals today. However, the job profile demands a high-level of expertise in Mathematics, Statistics, and Computer Science. You are aware of multiple languages like Python, R, Java, C, Ruby, Perl, Scala, etc.

Big Data Engineer

Big Data Engineers are responsible for building, testing, and maintaining a scalable Big Data environment for the businesses or

organizations so that the Data Scientists can sprint their algorithms on stable and optimized data systems. Big Data Engineers usually work closely with Data engineers, Data Analysts, and Data Scientists, all resolute on one goal – to help organizations obtain meaningful close from large and complex datasets that can be distorted into actionable business decisions.

Data Scientist

They are mostly concerned with creating value from multifaceted data. Data Scientists gather data from the company repository and also from various external sources (social media, websites, blogs, etc.). They clean, organize and process (ETL Process Extract, Transform and load)this data to further analyze it for extracting the hidden patterns within it. Due to this in organization they can make strategic decisions. Data Scientists work in close collaboration with Data Analysts, and together, they dig deep into the data to expose meaningful within reach that can be used to find solutions for real-world business issues.

Data Analyst

Data Analysts are the middleware between the two domains – Data Science and business. While They are collecting relevant data from disparate sources. a data analyst collects, processes and performs arithmetical analyses on large dataset. They determine how data can be used to answer questions and solve problems. With the expansion of computers and an ever growing move toward technological

intertwinement, data analysis has evolved. The expansion of the relational database gave a new breath to data analysts, which allowed analysts to use SQL to retrieve data from databases.

Database Administrator

Database Administrators is a key one in the industry since these professionals are primarily resolute on the everyday functioning of the company database. They maintain the database, monitor and track the database software purchases, manage database access, implement security measures, and supervise the alteration incorporated in existing software products. Database Administrators are also responsible for quality control and the performance of company databases to defend and support the integrity and privacy of confidential data. Database Administrators must possess analytical skills. Database administrators – DBAs, set up records according to a company's needs and make sure they activate powerfully.

Information Security/Cyber Security

Information Security/Cyber Security Analysts are professionals who wholly focus on the safety of an organization’s sensitive and mission-critical data. They must always be ahead of cybercriminals and protect the network and systems from being violated and malfunctions by hackers and attackers. They must updated new trends in cybersecurity and design innovative explanations to protect the security of data and systems of a company. Information

Security/Cyber Security Analysts focus on three core areas – risk assessment, weakness assessment, and defence planning.

Information Technology Manager (I.T. Manager)

Information Technology Managers are business supervisors who manage and implement computer and information technology (I.T.) systems within an organization. They act as an association between a company's top management and I.T. expert. They are responsible for the secure and efficient operation of all computer systems, software function, and other hardware/software workings that are used by a company

Computer Network Architect

Computer Network Architects are specialized who design, develop, implement, and maintain a network of communication and data communication systems. This contains local area networks, wide area networks, extranets, and intranets. Also, they grip the job of upgrading both software (for example, network drivers) and hardware (like adapters and routers). Network architect works with CTO of the company (Chief Technology Officer)

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M M I T

Computer Engineering

Career Options

- **Programming** (Android, Java, .NET, Python, BackEnd, FrontEnd
- **Infrastructure Engineer** (Aws, AZURE, GOOGLE)
- **Designing** (Web Designing, UI Designing, Graphics Designing)
- **Digital Marketing** (SEO,SMM,SEM, Digital Stratagist Marketing
- **Software Testing & Quality Assurance**(Automated & Manual Testing)
- **Network Engineer** (Networking & Communication)
- **Project Manager, IT Manager**
- **Cyber Security, Network Security Engineer**
- **Data Scientist, Big Data Analyst**

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