**Cloud Computing Engineer**

* Cloud System Administrator
* Cloud System Engineer

Cloud computing engineers or administrator define, design, build, and maintain systems and solutions leveraging systems and infrastructure managed by cloud providers such as [Amazon Web Services (AWS)](https://www.thebalancecareers.com/best-aws-certifications-5184658) and Microsoft Azure. Computing engineers can earn notably high salaries: according to the BLS, the median salary for this role is **$121,205 per year**

**Qualifications**: BSc in Computer Science, Physics, and any other engineering degree, CISCO Certification,

Or Ubiquiti Certification in Wireless Networking, Minimum of 5 years’ experience working as a cloud administrator

### Computer Network Specialist

* Senior Network Engineer
* Network Systems Administrator
* Senior Network System Administrator

Computer network specialists and analysts define, design, build, and maintain a variety of data communication networks and systems. They typically have a bachelor’s degree in computer science or a related field. Some also have a master’s degree in business administration (MBA), with a focus on information systems. Computer network architects can earn notably high salaries: according to the BLS, the median salary for this role is **$60,739 per year**.

Network Specialist Skill Requirements:  
  
**Extensive knowledge of network connectivity, technologies, protocols, and security**. Exceptional analytical and problem-solving skills. Excellent interpersonal, communication, and collaboration skills. Great organizational and time management skills.

**Qualifications**: BSc in Computer Science, Physics, and any other engineering degree, CISCO Certification,

Or Ubiquiti Certification in Wireless Networking, Minimum of 5 years’ experience working as a network administrator

### Computer Support Specialist

* Desktop Support Specialist
* Senior System Administrator
* Support Specialist
* Systems Administrator

[Computer support specialists](https://www.thebalancecareers.com/tech-support-skills-list-2063774) and network administrators help computer users and organizations. Some of these workers support computer networks by testing and evaluating network systems and ensuring that the day-to-day operations work. Others provide customer service by helping people with their computer problems. Some require a bachelor’s degree, while others need an associate degree or post-secondary classes. The median salary is **$54,037.**

Computer support specialists should also possess the following specific qualities**:**

* Customer service skills. Computer support specialists must be patient and sympathetic. ...
* Listening skills. ...
* Problem-solving skills. ...
* Speaking skills. ...
* Writing skills.

**Qualifications**: Associate degree in Computer Operations, or any other engineering discipline. Industry Certifications are also helpful

### Database Administrator

* Data Center Support Specialist
* Data Quality Manager
* [Database Administrator](https://www.thebalancecareers.com/database-administrator-job-description-salary-and-skills-2061775)
* Senior Database Administrator

Database administrators help store and organize data or companies and/or customers. They protect the data from unauthorized users. Some work for companies that provide computer design services. Others work for organizations with large database systems, such as educational institutions, financial firms, and more. The median pay for this job is **$81,710** per year.3

**Key skills for database administrators**

* Data modeling and database design. ...
* Metadata management and repository usage. ...
* Database schema creation and management. ...
* Backup and recovery. ...
* Ensuring data integrity. ...
* Performance management and tuning. ...
* Ensuring availability.
* Patience.
* Meticulous attention to detail.
* A logical approach to work.
* The ability to prioritize tasks.
* Problem-solving skills.
* Good organizational skills.
* Communication and interpersonal skills.

**Qualifications**: A bachelor's degree in computer science or a related field.

* Advanced certification as an MCDBA or MCSD for .NET is advantageous, or Oracle DBA, MySQL DBA
* A minimum of 3 years' experience as a database administrator.
* Proficiency in data manipulation languages, including MS SQL, Oracle Database, Hadoop, or PostgreSQL.

### Information Technology Analyst

IT analysts are responsible for designing and implementing organizational technology for businesses. They create solutions for collecting and analyzing market data, customer input, and client information. The median pay for this job $74,412 per annum.

* Application Support Analyst
* Senior System Analyst
* [Systems Analyst](https://www.thebalancecareers.com/computer-systems-analyst-526001)
* Systems Designer

**Key skills for database administrators**

* Competent Verbal Communication. ...
* Good Listening Skills. ...
* Ability to Understand Delegated Objectives. ...
* Being able to Run Meetings with Stakeholders. ...
* Knowing the Objectives Well. ...
* Being Diligent with Time Management.

**Qualifications**: A bachelor's degree in computer science or a related field.

### Information Technology Leadership

Leadership in IT draws from candidates with strong technology backgrounds and superior management skills. They have experience in creating and implementing policies and systems to meet IT objectives, and the ability to budget the time and funds necessary. They make a median salary of  **$85,240** per annum.

* Chief Information Officer (CIO)
* Chief Technology Officer (CTO)
* Director of Technology
* IT Director

**Information Security Specialist**

The increased incidence of security breaches and the associated danger of identity theft has enhanced the importance of protecting data on commercial and governmental sites. [Information security analysts](https://www.thebalancecareers.com/information-security-analyst-skills-2062409) help defend an organization’s computer network and computer systems.

They plan and carry out a variety of security measures, such as installing and using software, and simulating cyber-attacks to test systems. Information security jobs are expected to grow much faster than average, according to the BLS, with an increase of 31% between 2019 and 2029. These positions pay a median annual salary of $99,730.

* Information Security Analyst
* Security Specialist
* Senior Security Specialist

Skills requirements:

* Networking and System Administration. ...
* Knowledge of Operating Systems and Virtual Machines. ...
* Network Security Control. ...
* Coding. ...
* Cloud Security. ...
* Blockchain Security. ...
* The Internet of Things (IoT) ...
* Artificial Intelligence (AI)

**Qualifications**: **at least bachelor's degree in information security, computer information systems, computer science or a related field of study**.

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### Software/Application Developer

[Software developers](https://www.thebalancecareers.com/software-developer-job-description-salary-and-skills-2061833) design, run, and test various computer programs and applications. Application Developers create new applications and code solutions. The BLS expects the number of software developer jobs to grow by 22% between 2019 and 2029. The median salary of a software developer is **$107,510.**

* Senior Programmer
* Senior Programmer Analyst
* Senior Software Engineer
* Senior System Architect
* Senior System Designer
* Senior Systems Software Engineer
* Software Architect

**Required Skills:**

* Mathematical aptitude.
* Be an excellent problem solver
* Programming languages (different types of developer role require different languages)
* Excellent organizational and time management skills.
* Accuracy and attention to detail.
* The ability to analyze complex technical information.
* The ability to analyze business requirements and assess impact within the existing database architecture.
* Good research skills.

**Qualifications**: They usually have a bachelor’s degree in computer science or a related field. They also have strong [programming skills](https://www.thebalancecareers.com/list-of-information-technology-it-skills-2062410).

**Web Developer**

* [Front End Developer](https://www.thebalancecareers.com/front-end-web-developer-cover-letter-and-resume-examples-2060131)
* Senior Web Administrator
* Senior Web Developer
* Web Administrator
* [Web Developer](https://www.thebalancecareers.com/web-developer-job-description-salary-and-skills-2061841)

Web developers design, create, and modify websites. They are responsible for maintaining a user-friendly, stable website that offers the necessary functionality for their client’s needs. Some jobs require a bachelor’s degree, while others need an associate degree, including classes in HTML, JavaScript, or SQL. The median annual salary for a web developer is $73,760.

﻿Required Skills/Abilities:

* Thorough understanding of website design and administration.
* Strong analytical and problem-solving skills.
* Strong verbal and written communication skills.
* Excellent organizational skills and attention to detail.
* Fluency with markup and programming languages including HTML, XML, Java, and CSS.
* Proficient with Microsoft Office Suite, Adobe Creative Suite, and other related software.

## Education and Experience:

* Associates degree or two years of vocational school required; Bachelor’s degree in Computer Science, Business, Web Development, or related field preferred.
* At least two years of related experience highly preferred.