**Careers**

1. **Web Developer**

Builds and maintains websites and web applications.

Works on back end, front end or both

Has to stay up to date with new trends and advancements in web development

Creates reliable applications and services which can be accessed over the Internet

Cooperates with web designers

Determine a website’s contents and adds the necessary tools and links.

1. **Video Game Developer**

Involved in game’s conception and execution

Creates video games for computers and consoles

Creates story lines and character biographies

Is required to fix graphical glitches and bugs

Converts art, audio and text assets into a format that can be used by the game engine

Has to balance game mechanics so finished product has to fun and enjoyable to the player.

1. **Database Developer**

Designs and builds databases

Imports data into databases

Meets with analysts, executives and managers to discuss what information needs to be stored

Decides the best format to record and manage data

Also known as ‘database designers’ or ‘database programmers’

Deploy data table structures, forms, reports and queries.

1. **Computer Support Specialist**

Assists users who are having problems with software and hardware

Also known as ‘technical support specialist’

Can assist companies’ customers or provide support to an organization’s IT staff

Installs, updates and troubleshoots software

Can recommend new equipment and software

Run diagnostic programs to determine causes of problems

1. **Computer Science Teacher**

Supports students and encourages them to do their best

Assigns homework, projects and assignments

Effectively delivers the curriculum

Needs to be engaging and helpful to students

Available to provide help and answer students’ questions

Able to prepare and mark tests and quizzes.

1. **Bioinformatics Specialist**

Creates and maintains databases to store biological data, such as DNA sequences

Some help design and operate clinical trials to test new drugs or medical services

Analyzes and stores biological data

Can create algorithms to process, analyze, visualize or interpret information

Needed to support wildlife biologists and environmental scientists

Able to analyze large amounts of data and explain biological phenomena

1. **IT Project Manager**

Coordinates activities of professionals who develop computer programs

Estimates how long a project will take

Ensures that projects are finished on time and on budget

Assigns tasks to team members

Oversees team members and monitors progress

Coaches and counsels employees while maintaining a professional composure

1. **Multimedia Developer**

Creates elements for websites, smartphones apps, and video games

Develops concepts and find investors for multimedia products

Combines computer programming and visual artist skills to design programs for various purposes

May develop programs for CD-ROMs, websites or touch-screen kiosks

Also known as ‘multimedia artist’

Need to think about cross-platform integration

1. **Network Administrator**

Responsible for keeping an organization’s computer network updated and running smoothly

Installs network and computer systems

Maintains, repairs, and upgrades network and computer systems

Diagnoses and fixes problems with network and its hardware, software and systems

Also known as ‘systems administrator’

Monitors network and systems to improve performance

1. **IT Security Specialist**

Analyzes and establishes security requirements for systems or networks

Defends systems against unauthorized access, modification and destruction

Configures and supports security tools such as firewalls, anti-virus software

Performs vulnerability testing, risk analyses and security assessments

Trains fellow employees in security awareness, protocols and procedures

Researches and recommends security upgrades

1. **Computer Systems Analyst**

Studies an organization’s current computer system and procedures, and looks for improvements

Devises ways to add new functionality to existing computer systems

Calculates how much memory, storage and computing power the computer system needs

Specialists in this career include ‘software quality assurance analysts’ and ‘programmer analysts’

Also known as ‘system architects’

Determines the role of the IT system in an organization with its managers

1. **Health Information Technician**

Manages and organizes medical data

Verifies the completeness and accuracy of medical records

Uses computer application to collect and analyse patient data to improve care or control costs

Since health records are increasingly kept electronically, this career is in high demand

Can specialize in types of information, such as in medical coding or in maintaining cancer registrars

Protect the security of medical records

1. **Computer Hardware Engineer**

Designs and creates computers and related parts

Analyzes the requirements for new products

Makes and tests prototypes

Created products may include circuit boards and monitors

Presents completed designs to clients and oversees the manufacturing process

Creates blueprints of computer equipment to build

1. **SEO Specialist**

Responsible for increasing number of visitors to a website

Work also known as ‘content marketing’ or ‘conversion rate optimisation work’

Title may alternatively be ‘online marketer’ or ‘digital account executive’

Runs pay-per-click campaigns to increase revenue through sponsored online advertising

Works to obtain a high-ranking placement in the search results page of search engines

Researches and analyzes the competitor’s advertising links.

1. **UX Designer**

Improves user experience of websites and apps

Creates application and sites that are usable, intuitive and aesthetically pleasing

Works to make experience pleasant so the user wishes to re-visit

Analyses requirement of client and behavior of users to incorporate in design of user interface

Roles include UI designer, information architect and visual designer

Creates storyboards to replicate a typical customer’s experience

<https://www.prospects.ac.uk/careers-advice/what-can-i-do-with-my-degree/computer-science>

<https://www2.careercruising.com/careers/search-for-careers/bycluster/com/ccclusters>