

Index

A

Access Control

[6.3: Tools for Information Security](#)

Agile development methodology

[10.2: Systems Development Life Cycle \(SDLC\) Model](#)

AI and machine learning

[5.4: Trends, the Changing Environment](#)

AI engineers

[9.5: Emerging Roles](#)

AI Language Model

[3: Software](#)

Ambience computing

[5.4: Trends, the Changing Environment](#)

Application software

[3.1: Introduction to Software](#)

[3.2: Types of Software](#)

ARPANET

[5.2: A Brief History of the Internet](#)

artificial intelligence

[7.5: Investing in IT for Competitive Advantage](#)

[14.4: Future of Information Systems](#)

Authentication

[6.3: Tools for Information Security](#)

Autonomous

[14.3: Internet of Things \(IoT\)](#)

Availability

[6.2: The Information Security Triad- Confidentiality, Integrity, Availability \(CIA\)](#)

[6.6: Security vs. Availability](#)

B

Backup

[6.3: Tools for Information Security](#)

Bargaining power of customers

[7.3: Competitive Advantage](#)

Bargaining power of suppliers

[7.3: Competitive Advantage](#)

Benefits of Data Warehousing

[4.7: Data Warehouse](#)

Big Data

[4.6: Big Data](#)

[9.5: Emerging Roles](#)

Big Data Engineer

[9.5: Emerging Roles](#)

Binary

[2.1: Introduction](#)

Bits

[2.1: Introduction](#)

Blockchain

[14.4: Future of Information Systems](#)

Bluetooth

[2.4: Removable Media](#)

Building Information Systems

[9.2: The Creators of Information Systems](#)

Business analytics

[4.12: What is data science?](#)

Business Intelligence

[4.12: What is data science?](#)

Business Process

[8.2: What Is a Business Process?](#)

Business Process Engineering

[8.2: What Is a Business Process?](#)

Business Process Management

[7.4: Using Information Systems for Competitive Advantage](#)

BYOD

[5.4: Trends, the Changing Environment](#)

C

Cable

[5.3.6: Internet Connections](#)

CCPA

[6.8: Legal and Compliance Requirements](#)

Chief Information Officer

[9.4: Managing Information Systems](#)

Client And Servers

[5.3.2: Providing Resources in a Network](#)

Client server

[1.3: The Evolution and Role of Information Systems](#)

Cloud Computing

[3: Software](#)

[3.3: Cloud Computing](#)

[5.4: Trends, the Changing Environment](#)

Cloud Services

[7.4: Using Information Systems for Competitive Advantage](#)

Cloud System Engineer

[9.5: Emerging Roles](#)

Code of Ethics

[12.1: Introduction](#)

Collaborative systems

[7.4: Using Information Systems for Competitive Advantage](#)

[14.2: Collaborative](#)

Competitive Advantage

[1.4: Can Information Systems Bring Competitive Advantage?](#)

[7.3: Competitive Advantage](#)

[7.5: Investing in IT for Competitive Advantage](#)

Components of an information system

[1.1: Introduction](#)

Components of Information Systems

[1.2: Identifying the Components of Information Systems](#)

Computer Engineer

[9.2: The Creators of Information Systems](#)

Computer Operator

[9.3: Information-Systems Operations and Administration](#)

Computer Programmer

[9.2: The Creators of Information Systems](#)

Computer Vision Engineer

[9.5: Emerging Roles](#)

confidentiality

[6.2: The Information Security Triad- Confidentiality, Integrity, Availability \(CIA\)](#)

Connection To The Internet

[5.3.6: Internet Connections](#)

Connections

[5.3.5: The Internet, Intranets, and Extranets](#)

Converging Network

[5.3.7: The Network as a Platform Converged Networks](#)

COPPA

[12.3: The Digital Millennium Copyright Act](#)

copyright

[12.2: Intellectual Property](#)

Cost advantage

[7.3: Competitive Advantage](#)

CPU

[2.2: Tour of a Digital Device](#)

Creative Commons

[12.3: The Digital Millennium Copyright Act](#)

Cyber Security

[7.5: Investing in IT for Competitive Advantage](#)

Cyber Security Analyst

[9.5: Emerging Roles](#)

Cybercrime

[6.5: Security Operations Centers](#)

D

Data

[1.2: Identifying the Components of Information Systems](#)

Data Analytics

[4.12: What is data science?](#)

Data Center

[5.4: Trends, the Changing Environment](#)

Data Governance

[4.10: Enterprise Databases](#)

Data Mining

[4.8: Data Mining](#)

Data Science

[4.12: What is data science?](#)

Data Types

[4.4: Designing a Database](#)

Data Warehouse

[4.7: Data Warehouse](#)

[4.8: Data Mining](#)

Database Administrator

[9.3: Information-Systems Operations and Administration](#)

Database Vs. Spreadsheet

[4.5: The Difference between a Database and a Spreadsheet](#)

Databases

[4.2: Examples of Data](#)

DBMS

[4.9: Database Management Systems](#)

Decision Support Systems

[7.4: Using Information Systems for Competitive Advantage](#)

Designing A Database

[4.4: Designing a Database](#)

developers

[9.1: Introduction](#)

Developing Information Systems

[9: The People in Information System](#)

[9.2: The Creators of Information Systems](#)

Device Security

[6.1: Introduction](#)

Devices

[5.4: Trends, the Changing Environment](#)

Differentiation advantage

[7.3: Competitive Advantage](#)

Diffusion of Innovation

[9.7: Information-Systems Users – Types of Users](#)

Digital Cooperation

[14.1: Introduction](#)

Digital Devices

[2.1: Introduction](#)

Digital Divide

[11.1: Introduction](#)

Digital Millennium Copyright Act
12.3: The Digital Millennium Copyright Act
Direct Cutover
10.4: Implementation Methodologies
Documenting a Business Process
8.2: What Is a Business Process?
Drones
14.3: Internet of Things (IoT)
DSL
5.3.6: Internet Connections

E

Early Adopters
9.7: Information-Systems Users – Types of Users
Early Majority
9.7: Information-Systems Users – Types of Users
Edge computing
5.4: Trends, the Changing Environment
Electronic Data Interchange
7.4: Using Information Systems for Competitive Advantage
Electronic Waste
2.5: Other Computing Devices
Encryption
6.3: Tools for Information Security
End User Devices
5.4: Trends, the Changing Environment
Entanglement
14.4: Future of Information Systems
Enterprise Databases
4.10: Enterprise Databases
Enterprise Software
3.2: Types of Software
ERP
3: Software
3.2: Types of Software
ERP management
9.4: Managing Information Systems
Expert systems
14.4: Future of Information Systems
Extranet
5.3.5: The Internet, Intranets, and Extranets

F

Fair Use
12.2: Intellectual Property
Fault Tolerance
5.3.8: Reliable Network
FERBA
6.8: Legal and Compliance Requirements
FERPA
12.3: The Digital Millennium Copyright Act
firewall
6.3: Tools for Information Security
Firm infrastructure
7.3: Competitive Advantage
First Sale Doctrine
12.2: Intellectual Property
Five Forces model
7.3: Competitive Advantage
Five levels of automation
14.3: Internet of Things (IoT)
Four Levels of Information Systems
7.4: Using Information Systems for Competitive Advantage
Functional Manager
9.4: Managing Information Systems

G

GDPR
6.8: Legal and Compliance Requirements
Global Competition
7.5: Investing in IT for Competitive Advantage
Global Firm
11.2: The Global Firm
globalization
11.1: Introduction
Globalization Benefits
11.2: The Global Firm
Globalization Challenges
11.2: The Global Firm
GPU
2.2: Tour of a Digital Device
Grade Hopper
1.3: The Evolution and Role of Information Systems
Graphics Processing Unit
2.2: Tour of a Digital Device

H

Hacktivists
6.2: The Information Security Triad- Confidentiality, Integrity, Availability (CIA)
Hardware
1.2: Identifying the Components of Information Systems
2: Hardware
5.3.2: Providing Resources in a Network
HDD
2.3: Moore's Law
Health Information Technician
9.5: Emerging Roles
HIPAA
6.8: Legal and Compliance Requirements
12.3: The Digital Millennium Copyright Act
How do information systems work?
1.1: Introduction

I

IDE
10.3: Software Development
Identity Theft
6.4: Threat Impact
Inbound logistics
7.3: Competitive Advantage
Information Security
6: Information Systems Security
Information Security Officer
9.4: Managing Information Systems
Information Security Triad
6.2: The Information Security Triad- Confidentiality, Integrity, Availability (CIA)
Information Systems
1.1: Introduction
7.4: Using Information Systems for Competitive Advantage
Information systems ethics
12.1: Introduction
Information Systems Functions
9.6: Career Path in Information Systems
Innovators
9.7: Information-Systems Users – Types of Users
Input Devices
2.4: Removable Media
Integrated development environment
10.3: Software Development

integrity

6.2: The Information Security Triad- Confidentiality, Integrity, Availability (CIA)
intellectual property
12.2: Intellectual Property
Interconnectivity
5.3.5: The Internet, Intranets, and Extranets
Interference
14.4: Future of Information Systems
Internet
5.2: A Brief History of the Internet
5.3.3: LANs, WANs, and the Internet
5.3.5: The Internet, Intranets, and Extranets
Internet Connections
5.3.6: Internet Connections
Internet growth
14.1: Introduction
Internet of things
14.3: Internet of Things (IoT)
Internet Speed
11.2: The Global Firm
Intranet
5.3.5: The Internet, Intranets, and Extranets
Intrusion Detection System
6.3: Tools for Information Security
Investing in IT
7.5: Investing in IT for Competitive Advantage
IoT
2.5: Other Computing Devices
5.4: Trends, the Changing Environment
14.3: Internet of Things (IoT)
ISO 9000
8.2: What Is a Business Process?
ISO certification
8.2: What Is a Business Process?
IT
7.2: The Productivity Paradox
IT does not matter
1.4: Can Information Systems Bring Competitive Advantage?
IT doesn't matter
7.2: The Productivity Paradox
IT vs. IS
1.2: Identifying the Components of Information Systems

J
JAD
10.2: Systems Development Life Cycle (SDLC) Model

K
Killer App
3.2: Types of Software
Knowledge Management
4.11: Knowledge Management

L
Laggards
9.7: Information-Systems Users – Types of Users
LAN
5.3.3: LANs, WANs, and the Internet
5.3.4: Network Representations
Late Majority
9.7: Information-Systems Users – Types of Users
Learning Systems
14.4: Future of Information Systems

M

Machine Learning Engineers

9.5: Emerging Roles

Mainframe

1.3: The Evolution and Role of Information Systems

Management Information Systems

7.4: Using Information Systems for Competitive Advantage

Marketing

7.3: Competitive Advantage

Metadata

4.10: Enterprise Databases

Mickey Mouse Protection Act

12.2: Intellectual Property

Mobile Application Developers

9.5: Emerging Roles

Mobile Software

3.2: Types of Software

Model K

1.3: The Evolution and Role of Information Systems

Modern security operations center

6.5: Security Operations Centers

Moore's law

2.3: Moore's Law

Moore's law

2: Hardware

Motherboard

2.3: Moore's Law

N

Network Architecture

5.3.8: Reliable Network

Network Diagrams

5.3.4: Network Representations

Network Reliability

5.3.8: Reliable Network

Network Representations

5.3.4: Network Representations

Network Safety

5.5: Network Security

Network Security

5.3.8: Reliable Network

5.5: Network Security

Network Security Threats

5.5: Network Security

Network Symbols

5.3.4: Network Representations

Network Topology

5.3.4: Network Representations

Network Trends

5.4: Trends, the Changing Environment

Networking

1.2: Identifying the Components of Information Systems

Networking Trends In The Home

5.4.1: Home Technology Trends

Networks

5.3.2: Providing Resources in a Network

5.3.3: LANs, WANs, and the Internet

Neural Networks

14.4: Future of Information Systems

NIST

6.8: Legal and Compliance Requirements

Normalized Database

4.4: Designing a Database

NoSQL

4.5: The Difference between a Database and a Spreadsheet

O

ODB

4.9: Database Management Systems

Operating Systems

3.2: Types of Software

Operations

7.3: Competitive Advantage

Oracle DBA

9.3: Information-Systems Operations and Administration

OS

3.2: Types of Software

Outbound logistics

7.3: Competitive Advantage

Output Devices

2.4: Removable Media

Outsourcing

9.6: Career Path in Information Systems

P

Parallel Operation

10.4: Implementation Methodologies

Password Security

6.3: Tools for Information Security

Patent

12.3: The Digital Millennium Copyright Act

Patent Troll

12.3: The Digital Millennium Copyright Act

PC revolution

1.3: The Evolution and Role of Information Systems

PCI DSS

6.8: Legal and Compliance Requirements

Peer To Peer

5.3.2: Providing Resources in a Network

people and information systems

9.1: Introduction

Personal computer

1.3: The Evolution and Role of Information Systems

2.5: Other Computing Devices

Personally Identifiable Information

6.4: Threat Impact

Phased Implementation

10.4: Implementation Methodologies

PII

6.4: Threat Impact

Pilot Implementation

10.4: Implementation Methodologies

Porter's five forces

7.3: Competitive Advantage

Powerline Networking

5.4.1: Home Technology Trends

PowerPoint Software

3.2: Types of Software

Privacy

12.3: The Digital Millennium Copyright Act

Privacy Concerns

4.11: Knowledge Management

Private Cloud

3.3: Cloud Computing

Productivity Paradox

7.2: The Productivity Paradox

Productivity Software

3.2: Types of Software

Programming Languages

3.4: Software Creation

10.3: Software Development

Project Management Quality Triangle

10.3: Software Development

Project managers

9.4: Managing Information Systems

Q

QoS

5.3.8: Reliable Network

Qualitative Data

4.1: Introduction to Data and Databases

Quality Support Engineers

9.3: Information-Systems Operations and Administration

Quantitative Data

4.1: Introduction to Data and Databases

Quantum Algorithm

14.4: Future of Information Systems

Quantum computer

14.4: Future of Information Systems

Quantum computing

5.4: Trends, the Changing Environment

Quantum Parallelism

14.4: Future of Information Systems

Qubit

14.4: Future of Information Systems

R

RAD

10.2: Systems Development Life Cycle (SDLC) Model

RAM

2.3: Moore's Law

Relational Database

4.2: Examples of Data

4.5: The Difference between a Database and a Spreadsheet

removal media

2: Hardware

robotics

14.4: Future of Information Systems

Role of information systems

1.3: The Evolution and Role of Information Systems

S

Satellite

5.3.6: Internet Connections

SCRUM

10.2: Systems Development Life Cycle (SDLC) Model

SDLC model

10.2: Systems Development Life Cycle (SDLC) Model

security

6.6: Security vs. Availability

Security Administrator

9.5: Emerging Roles

Separate Networks

5.3.7: The Network as a Platform Converged Networks

Shadow IT

10.3: Software Development

Smart Home Technology

5.4.1: Home Technology Trends

Smart phones growth

14.1: Introduction

Smartphones

[2.5: Other Computing Devices](#)

SOC

[6.5: Security Operations Centers](#)

Social Media growth

[14.1: Introduction](#)

Software

[3: Software](#)

[3.1: Introduction to Software](#)

[5.3.2: Providing Resources in a Network](#)

Software component of Information

Systems

[1.2: Identifying the Components of Information Systems](#)

Software Developer

[9.2: The Creators of Information Systems](#)

Software Development

[10.3: Software Development](#)

Software Licenses

[3.4: Software Creation](#)

SQL

[4.3: Structured Query Language](#)

SSD

[2.3: Moore's Law](#)

Starbucks value chain model

[7.3: Competitive Advantage](#)

Strategy and internet

[7.3: Competitive Advantage](#)

Superposition

[14.4: Future of Information Systems](#)

Supply Chain Management

[3.2: Types of Software](#)

Support Analyst

[9.1: Introduction](#)

[9.3: Information-Systems Operations and Administration](#)

System Security

[6.1: Introduction](#)

System Software

[3.1: Introduction to Software](#)

Systems Analyst

[9.2: The Creators of Information Systems](#)

Systems Development Life Cycle

[10.2: Systems Development Life Cycle \(SDLC\) Model](#)

T

Tablet

[2.5: Other Computing Devices](#)

Technical Certifications

[9.6: Career Path in Information Systems](#)

Technology development

[7.3: Competitive Advantage](#)

Telecommunication

[14.2: Collaborative](#)

Telework

[14.2: Collaborative](#)

The Digital Divide

[11.3: The Digital Divide](#)

Threat of new entrants

[7.3: Competitive Advantage](#)

Threat of substitutes

[7.3: Competitive Advantage](#)

Threat Vectors

[5.5: Network Security](#)

Trademark

[12.3: The Digital Millennium Copyright Act](#)

Trainer

[9.3: Information-Systems Operations and Administration](#)

Transaction Processing System

[7.4: Using Information Systems for Competitive Advantage](#)

Types of Users

[9.7: Information-Systems Users – Types of Users](#)

Types of users of information systems

[9: The People in Information System](#)

U

UAV

[14.3: Internet of Things \(IoT\)](#)

V

Value Chain

[7.3: Competitive Advantage](#)

Video Communications

[5.4: Trends, the Changing Environment](#)

Video streaming

[14.2: Collaborative](#)

Virtual environment

[14.2: Collaborative](#)

Virtualization

[3.3: Cloud Computing](#)

Vision Systems

[14.4: Future of Information Systems](#)

VR and Augmented reality

[5.4: Trends, the Changing Environment](#)

W

WAN

[5.3.3: LANs, WANs, and the Internet](#)

[5.3.4: Network Representations](#)

Waterfall

[10.2: Systems Development Life Cycle \(SDLC\) Model](#)

Wearables

[14.1: Introduction](#)

Web 1.0

[1.3: The Evolution and Role of Information Systems](#)

Web 2.0

[1.3: The Evolution and Role of Information Systems](#)

WiFi 6

[5.4: Trends, the Changing Environment](#)

Wireless Broadband

[5.4.1: Home Technology Trends](#)

WISP

[5.4.1: Home Technology Trends](#)

World Wide Web

[1.3: The Evolution and Role of Information Systems](#)

[5.2: A Brief History of the Internet](#)

Write computer programs

[3: Software](#)