Computer Information Technology

The Computer Information Technology major focuses on the practical applications of technology to solve business and organizational problems. Students gain skills in computer programming, network management, database administration, and system analysis. Graduates are prepared to work in a variety of sectors, including IT services, cybersecurity, software development, systems administration, and data management. Typical industry sectors include healthcare, finance, government, education, and business services, where technology plays a crucial role in improving efficiency and innovation.

Job Title Examples:

- IT Support Specialist
- Help Desk Technician
- Network Administrator
- Software Developer
- Systems Analyst
- Database Administrator
- Web Developer
- Cybersecurity Analyst
- IT Consultant
- Cloud Support Engineer

Hard and Soft Skills Needed:

Hard Skills:

1. Programming Languages (e.g., Python, Java)
2. Network Management
3. Database Administration
4. Systems Analysis
5. Cybersecurity

Soft Skills:

1. Problem-Solving
2. Communication
3. Teamwork
4. Adaptability
5. Time Management

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Further Education/Training Required and/or Suggested:

A BS in Computer Information Technology qualifies students for entry-level positions, but additional certifications can boost career prospects:

To Enter the Field:

1. CompTIA IT Fundamentals (ITF+)
   - Introductory certification for those new to IT.
2. CompTIA A+ Certification
   - Basic certification for IT support roles.

To Advance:

1. Certified Information Systems Security Professional (CISSP):
   - For roles in cybersecurity.
2. Cisco Certified Network Associate (CCNA):
   - Ideal for networking and system administration positions.
3. Microsoft Certified Solutions Expert (MCSE):
   - For roles involving Windows server management.
4. Certified Information Technology Professional (CITP):
   - To advance in IT management and consulting.

Summary:

Certifications like CompTIA A+, CCNA, and CISSP enhance qualifications and career advancement in IT fields.

Professional or Student Associations:
- Association of Computing Machinery (ACM)
- Information Systems Security Association (ISSA)
- CompTIA
- Women in Technology International (WITI)
- Society of Women Engineers
- National Society of Black Engineers

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