



Bachelor of Science: Information Technology**Minor: Computer Science, Information Technology, Game Development and Web Development, Data Science****Certificate: Cybersecurity Certificate, Scripting for Data Manipulation, Database Design & Implementation**

The Bachelor of Science in Information Technology focuses on application support, including network, security, and database. Upon graduation, these students may choose to work as cybersecurity specialists, network managers or technicians, system administrators, database administrators or web developers. Employers recommend one or more internships to be successful and competitive when entering this field.

Career types associated with Information Technology

(Is this a good fit for you? Are you a...)

- Investigative - "Thinker"
- Conventional - "Organizer"
- Social - "Helper"

Related skills, values, and qualities

- Ability to adapt to constant change
- Proficiency in reading, writing, and thinking, questioning, and analyzing
- Proficiency in problem solving
- Ability to think logically and organize
- Proficiency with computers
- Aptitude for accuracy and detail
- Strong math background
- Ability to work under pressure
- Ability to concentrate for long periods of time

Courses Information Technology majors typically enjoy

- Algebra, Trigonometry, Calculus
- Computer Programming
- Computer Science
- Criminal Justice
- Information Technology
- Networking
- Cyber Security
- Web Development

Common interests of Information Technology majors

- Working with computers, software, gaming
- Troubleshooting and repairing electronic equipment
- Completing puzzles or playing games of strategy
- Solving logic problems
- Participating in Computer Science or related clubs
- Working part-time or volunteering in a technology store/department
- Reading computer or technology publications

For more information about the major

Contact the Computer Science and Information Technology Department, 256 Old Main, 610-683-4340, or visit www.kutztown.edu/csit
CSITDepartment@kutztown.edu

KU Majors related to Information Technology

Mathematics, Communication Design, Applied Digital Arts, Criminal Justice

FOUR STEPS TO SUCCESS

EXPLORE

DISCOVER

EXPERIENCE

IMPLEMENT

1ST YEAR

2ND YEAR

3RD YEAR

4TH YEAR

- Enroll in the Career Exploration Certificate.
- Attend info sessions to learn about career development and personal branding.
- Take a career assessment to identify and confirm interests.
- Get involved in campus clubs and organizations.
- Develop basic workplace skills through jobs or volunteer work.
- Talk with professors, family, and friends about career ideas.
- Conduct informational interviews with professionals working in fields of interest.
- Develop a relationship with your professors and faculty advisor.
- Meet with CDC career coach.
- Attend info sessions to learn about resume writing, and externships.
- Confirm your choice of major and consider options for double major or minor.
- Research careers of interest.
- Complete a job shadowing (externship) experience.
- Seek meaningful employment or volunteer work in a field related to your major.
- Explore options for undergraduate research and study abroad.
- Write a resume and have it reviewed by the CDC.
- Manage your online presence.
- Enroll in the Career Success Certificate.
- Complete an internship and/or undergraduate research.
- Attend info sessions about internships, interviewing, job search strategies, and grad school.
- Build a LinkedIn profile and continue to monitor your online presence.
- Complete a mock interview.
- Build skills through research projects, part-time employment, and volunteer work.
- Participate in employer panels, site visits & networking events.
- Attend internship & job fairs.
- Take on a leadership role in a student organization or work.
- Consider graduate school options and prepare for admissions tests.
- Attend your Senior Kick-off session and other info sessions to prepare for job search/grad school.
- Update your resume and LinkedIn profile.
- Create cover letter drafts.
- Gain experience through internships and/or undergraduate research.
- Secure references for job/grad school applications.
- Create your "30 second" commercial/elevator pitch.
- Meet with CDC to develop job search strategies.
- Research employers.
- Network with professionals through events and social media.
- Join a professional organization in your discipline.
- Attend the senior etiquette luncheon or dinner.
- Participate in job fairs and on-campus interviewing.

Sample Career Titles

Information Technology majors can be found working in a wide variety of career fields. Here are just some career titles that may be of interest. Please note that some jobs may require further education and training.

To learn more about these careers, visit <http://online.onetcenter.org> or www.bls.gov/oco.

Application/Programmer
 Computer Programmer
 Computer Installation Specialist
 Computer Service Technician
 Computer Systems Analyst
 Cryptographer/Cryptologist
 Cybersecurity Specialist
 Data/Database Analyst
 Data Centre Technician
 Data Scientist
 Database Administrator
 Data Communications/Security Analyst
 Educator/Trainer
 Employee Relations Specialist
 End-User Computing Manager
 Engineering Lab Technician
 Environmental Technologist
 Information Scientist
 Information Technology Consultant
 Information Security Analyst

Information Technology Specialist
 Information Systems Developer
 Information Systems Manager
 Information Technology Manager
 Information Technology Specialist
 Internet Developer
 ISO Specialist
 LAN/Logistics Manager
 Machine Programmer
 Multimedia Developer
 Network Administrator/Manager
 Network Engineer
 On-Line Services Manager
 Operating Systems Programmer
 Operations Manager/Analyst
 PC Support Specialist
 Product Development/Line Manager
 Product Forecaster/Estimator
 Production Support Specialist
 Programmer: Engineering & Sci.

Python Developer
 Quality Assurance Analyst
 SAS Programmer
 Senior Analyst Programmer
 Software Application Integrator
 Software Development Specialist
 Software Engineering Specialist
 Software Package Developer
 Software Support Tech/Specialist
 Systems Administrator/Analyst
 Systems Consultant
 Systems Programmer
 Systems Technical Manager
 Technical Writer
 User Support Analyst
 UI Programmer
 Web Developer
 Web Designer

Common Internship Sites and Employers

Information Technology majors often find internships and employment in the following fields/industries.

- Banks & Investment Firms
- Business & Industry
- Colleges/Universities
- Consulting Firms
- Federal, State & Local
- Healthcare
- International Agencies
- Manufacturing
- Military
- Research & Development
- Telecommunications

Handshake

Handshake is the primary online resource for preparing and connecting students and alumni with employers.
www.kutztown.edu/handshake

Useful Websites for Information Technology Majors

Whether you are researching related career fields, applying for internships or jobs, or planning to join a professional association, these websites are for you!

Industry/Employment Information

Computer Jobs
www.computerjobs.com

Computer Work
www.computerwork.com

Dice
www.dice.com

IEEE
jobs.ieee.org

Internet Society
www.internetsociety.org

Just Tech Jobs
www.justtechjobs.com

Tech America
www.techamerica.org

LinkedIn Jobs
www.linkedin.com/jobs

U.S. Bureau of Labor Statistics
<https://www.bls.gov/ooh/computer-and-information-technology/home.htm>

Production Hub
www.productionhub.com/jobs

Professional Associations

Agile Alliance
<https://www.agilealliance.org/>

ASIS International
<https://www.asisonline.org/>

Association for Computing Machinery
www.acm.org

Association of IT Professionals
www.aitp.org

Association for Women in Computing
www.awc-hq.org

Computer Society
www.computer.org

IT Association of America
www.itaa.org

Institute of Electrical & Electronics Engineers
www.ieee.org (job postings too)

International Assoc. for Technology in Education
www.iste.org

Related Area Employers

Air Products
Andesa Services
Armstrong World Industries
B. Braun Medical Inc.
Brenntag
Brentwood Industries
Clark Associates
Computer Aid Inc
Deloitte US Delivery Center
Fidelity Information Services
Gateway Ticketing
Hershey Entertainment & Resorts
Kutztown University
Lehigh Valley Health Network
LeverX
Listrak Inc.
Liquid Interactive
Lutron Electronics
Neo Pangea
Olympus
Oracle
Penn Interactive
Penske
PPL Electric Utilities
SAP
St. Luke's University Health Network
UHS of Delaware, Inc.
Versum Materials
Zulily

Building Your Resume for a Career in Information Technology

Building a strong resume for your career field starts long before you ever start your job search. Employers want to hire graduates who not only have the necessary educational background but also have experience applying that knowledge.

George Game Development

ggame000@live.kutztown.edu, www.linkedin.com/in./george, 555-555-5555

PROFILE

Interested in working for a game development company as a Game Designer.

TECHNICAL COMPETENCIES

- Operating Systems: Windows, Linux
- Programming Languages: C++, Java, Python
- Web Languages: HTML, ~~jQuery~~, PHP

QUALIFICATIONS

- Fluent in Spanish and English
- Experience communicating with diverse populations
- Strong interpersonal and problem-solving skills

Learn more about your field and develop the necessary skills for employment by gaining hands-on experience through internships.

EDUCATION

B.S. Kutztown University of Pennsylvania

Major: Game Development

GPA: 3.73

Dean's List

Kutztown, PA

Dec 20xx

Fall 20xx-Spring 20xx

Related Courses: Game Design and Prototyping, Two- and Three-Dimensional Game Development, Intro to 3D Modeling and Rendering, Fundamentals of Game Development

INTERNSHIP & EXTERNSHIP EXPERIENCE

Amazon Corporate LLC

Game Designer Intern

- Wrote a character design document that outlines internship goals
- Worked with the animation team to design animation keys
- Assisted a programmer with creating functionality for game characters
- Integrated animations into the game engine and scripted gameplay

Student Extern

- Observed process of code development and troubleshooting techniques
- Attended "Tech Talk" focused on analysis and design for new applications

Allentown, PA
Spring 20xx

Sept 20xx

Utilize summer breaks to acquire valuable experience via volunteer or employment opportunities related to your major.

RELATED EXPERIENCE

Kutztown University ~~ResNet~~ Helpdesk

Student Support Staff Member

- Assist with Adware/Spyware and Trojan removal
- Perform anti-virus installation, system updates and system restorations
- Complete troubleshooting tasks related to data recovery and printer/scanner issues
- Aide in security procedures such as student password changes
- Communicate effectively with ~~ResNet~~ staff and students

Kutztown, PA
Fall 20xx-Present

CAMPUS INVOLVEMENT & PROFESSIONAL DEVELOPMENT

Member, Kutztown Technology Association

Member, Phi Kappa Phi National Honors Fraternity

Member, American Computer Scientists Association (ACSA)

Volunteer, Special Olympics, Kutztown University

Recipient, Career Success Certificate, Kutztown University Career Development Center

Recipient, Career Exploration Certificate, Kutztown University Career Development Center

Fall 20xx-Present
Fall 20xx-Present
Fall 20xx-Present
Spring 20xx & 20xx
Spring 20xx
Fall 20xx

Develop professionally through campus involvement and professional memberships. This illustrates responsibility, leadership abilities and time management skills.

WORK EXPERIENCE

Best Buy

Sales Consultant

- Answered technology-related inquiries regarding desktops, laptops and tablets
- Communicated with diverse staff to provide positive customer experience
- Resolved issues and complete customer returns

Wyomissing, PA
Summers 20xx-20xx