The Bachelor of Science degree in Computer Science is a traditional computer science degree. It focuses on the fundamentals for computer science and application development. Students who receive a degree in Computer Science may choose to work in a variety of areas after graduation, such as application development, software engineering and software support, or go on to graduate school. 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 security specialists, network managers or technicians, system administrators or web developers. Employers recommend one or more internships to be successful and competitive when entering this field.

Career types associated with Computer Science or 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, analyzing and 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 Computer Science & Information Technology majors typically enjoy
- Algebra, Trigonometry, Calculus
- Computer Programming
- Computer Science
- Criminal Justice
- Information Technology
- Networking
- Cyber Security
- Web Development

Common interests of Computer Science 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

KU Majors related to Computer Science
Mathematics, Physics, Communication Design, Applied Digital Arts

For More Information on Computer Science/IT careers or to speak to a Career Counselor, contact KU Career Development Center 113 Stratton Administration Center * 610-683-4067 * careerhelp@kutztown.edu * www.kutztown.edu/careercenter
## Sample Career Titles

Computer Science or 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](http://online.onetcenter.org) or [www.bls.gov/oco](http://www.bls.gov/oco).

<table>
<thead>
<tr>
<th>Application/Programmer</th>
<th>End-User Computing Manager</th>
<th>Product Development/Line Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communications Specialist</td>
<td>Engineering Lab Technician</td>
<td>Product Forecaster/Estimator</td>
</tr>
<tr>
<td>Computer Consultant</td>
<td>Environmental Technologist</td>
<td>Production Scheduler/Planner</td>
</tr>
<tr>
<td>Computer Engineer</td>
<td>Hardware Sales/Service Person</td>
<td>Production Support Specialist</td>
</tr>
<tr>
<td>Computer Installation Specialist</td>
<td>Information Systems Developer</td>
<td>Software Development Specialist</td>
</tr>
<tr>
<td>Computer Marketing/Sales</td>
<td>Information Systems Manager</td>
<td>Software Engineering Specialist</td>
</tr>
<tr>
<td>Computer Operator</td>
<td>Information Technology Manager</td>
<td>Software Package Developer</td>
</tr>
<tr>
<td>Computer Security Analyst</td>
<td>Internet Developer</td>
<td>Software Salesperson</td>
</tr>
<tr>
<td>Computer Service Technician</td>
<td>Market Analyst</td>
<td>Software Support Tech/Specialist</td>
</tr>
<tr>
<td>Computer Systems Analyst</td>
<td>ISO Specialist</td>
<td>Systems Administrator/Analyst</td>
</tr>
<tr>
<td>CQI Production Manager</td>
<td>LAN/Logistics Manager</td>
<td>Systems Consultant</td>
</tr>
<tr>
<td>Cryptographer/Cryptologist</td>
<td>Materials Controller</td>
<td>Systems Programmer</td>
</tr>
<tr>
<td>Cybersecurity</td>
<td>Meteorologist</td>
<td>Systems Technical Manager</td>
</tr>
<tr>
<td>Data/Database Analyst</td>
<td>Network Administrator/Manager</td>
<td>Technical Sales/Support Rep.</td>
</tr>
<tr>
<td>Data Communications/Security Analyst</td>
<td>On-Line Services Manager</td>
<td>Technical Writer</td>
</tr>
<tr>
<td>Distribution Manager</td>
<td>Operating Systems Programmer</td>
<td>Telecommunications Manager</td>
</tr>
<tr>
<td>Educator/Trainer</td>
<td>Operations Manager/Analyst</td>
<td>User Support Analyst</td>
</tr>
<tr>
<td>Employee Relations Specialist</td>
<td>PC Support Specialist</td>
<td>Web Designer</td>
</tr>
</tbody>
</table>
Common Internship Sites and Employers

Computer Science and 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 is the primary online resource for preparing and connecting students and alumni with employers.

www.kutztown.edu/handshake

Useful Websites for Computer Science & 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
- Computer Science.org
  - www.ComputerScience.org

**Professional Associations**

- American Society for Info Science & Technology
  - www.asist.org
- Association for Computing Machinery
  - www.acm.org
- Association of IT Professionals
  - www.aitp.org
- Association for Women in Computing
  - www.awc-hq.org
- Computing Research Association
  - www.cra.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 Computer Science

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.

Caitlin Computer-Science
comp000@live.kutztown.edu, 555-555-5555

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

EDUCATION
B.S. Kutztown University of Pennsylvania
Major: Computer Science/Software Development
GPA: 3.73
Dean’s List

Kutztown, PA Dec 20xx
Fall 20xx-Spring 20xx


INTERNSHIP & EXTERNSHIP EXPERIENCE

Computer Aid, Inc.

Programming and Development Intern
Allentown, PA
Spring 20xx

- Assisted with code development for tax processing system
- Tested and debugged various applications
- Created code documentation
- Presented group code summary project at annual company seminar

Student Extern
Sept 20xx

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

RELATED EXPERIENCE

Kutztown University ResNet Helpdesk
Student Support Staff Member
Fall 20xx-Present
Kutztown, PA

- 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

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
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
Wyomissing, PA
Summers 20xx-20xx

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

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

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