Software Developer

About my job:

As a software developer, I act as the creative mind behind computer programs. I might develop the applications that allow people to do specific tasks on a computer or I might develop the underlying systems or networks.

What I do every day:

- Modify existing software to adapt to new hardware, or to improve its performance
- Develop and direct software system testing and procedures, programming and documentation
- Coordinate with systems analysts, engineers, programmers and others to design systems and improve capabilities, performance requirements and interfaces
- Evaluate user needs and software requirements to determine feasibility of design, time and cost constraints
- · Design, develop and modify software systems
- Store, retrieve and manipulate data for analysis of system capabilities
- Oversee the work of programmers, technologists and technicians
- Coordinate software system installation and monitor equipment functioning to ensure specifications are met
- Obtain and evaluate information on reporting formats required, costs and security needs
- · Develop and comply with corporate security guidelines

What makes my job great?

Job growth:

Employment of software developers is projected to grow 22 percent from 2012 to 2022, due to the large increase in the demand for computer software.

Short-term training:

Software developers usually have a bachelor's degree in computer science and strong programming skills.

Good pay:

The median salary is \$73,400 per year. (That means that 50 percent of software developers earn less and the other 50 percent earn more.)

Benefits:

Most software developers work full time with benefits that may include:

- Healthcare
- Paid vacation
- Flexible schedule and location
- Tuition assistance





How can you become a software developer?



Academic/training credentials:

Bachelor's degree with programming experience.

Other credentials:

Most software developers earn a bachelor's degree in computer science or software engineering. Software engineers who complete an ABET accredited software engineering program may be registered as a professional engineer (P.E.).

Work experience/internships:

Internship opportunities provide students with relevant experience to help them get hired. Others begin work as computer programmers and advance to careers in software development.

Skills and requirements:

- Computer programming skills
- Problem solving skills
- Excellent attention to detail
- Strong verbal and written communication skills
- Knowledge of system development lifecycle
- Data modeling skills
- Relevant work experience

Where you can find jobs:

- Online job boards
- Social media
- Information technology recruiting firms
- Career fairs
- Networking with family, friends and teachers
- IT consulting firms
- Company websites
- Department of Career Services at colleges

Potential job titles:

- Programmer analyst
- Software development engineer
- Data modeler
- Software architect
- Software developer
- Applications developer
- Business systems analyst

Potential local employers:

- the Cleveland Clinic
- Cornerstone Technology
- CyberCoders
- Key Bank
- Parker-Hannifin
- Progressive Insurance
- Sherwin-Williams.





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Local educational opportunities

Two-year institutions:

- Lakeland Community College: Associate of Applied Business Computer Science/Software Engineering Concentration
- Lakeland Community College: Associate of Applied Business Computer Science/Application Programming and Development Concentration
 - o IT specialist certificate
 - o IT professional certificate

Contact Lakeland Information Technology & Computer Science Department Chair at 440.525.7265.

 Cuyahoga Community College: Associate of Applied Business in Information Technology: Programming and Development

Four-year institutions:

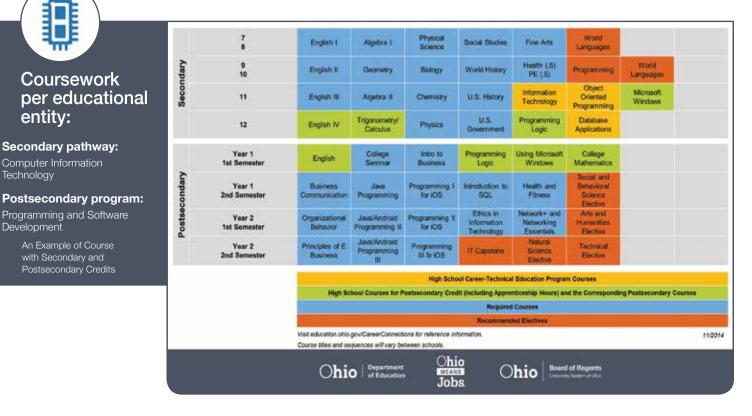
- Holden University Center of Lakeland Community College/Kent State University: Bachelor of Technical and Applied Studies, Computer Technology General Concentration
- Cleveland State University: Bachelor of Science in computer and information science
- Kent State University: Bachelor of Science in Computer Science
- University of Akron: Bachelor of Science in Computer Science



Ohio College Tech Prep Building Quality Career Pathways

High School Tech Prep:

- Auburn Career Center: information support and services program
- A Tech: computer information systems program
- Lake Shore Compact: computer information systems program
- Excel TECC: information technology and programming program
- Contact your high school guidance office







How can I grow my career?



A software developer requires a bachelor's degree in computer science or other technical degree. Additional work experience as a computer programmer is also helpful.

Where could I focus or specialize in my career?

- Computer user support specialist
- Computer programmer
- Database administrator
- Computer and information systems manager
- Project manager

