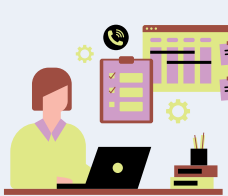


Web Developers and Programmers



As businesses grow, an avenue for expansion often includes establishing an online presence to connect with clients, advertise, and display services and goods. Web Developers and Programmers convert designs into navigable, interactive websites and web services. In the automotive industry, they enable rendering customized vehicles online to understand how options affect a desired vehicle. As businesses are increasingly online and digitizing services, demand for Web Developers and Programmers over the next ten years is set to increase.

Where do Web Developers and Programmers work?



Government Administrative Services



Universities



Computer System Design and Related Services



Advertising, Public Relations and Related Services



Specialized Design Services

What do Web Developers and Programmers do?

Coding, implementation and ongoing support of web sites and web applications is the main component of work for Web Developers and Programmers. Web Developers and Programmers perform collaborative work with clients and designers, to assist in the overall design process. Below are some of the tasks Web Developers and Programmers encounter in their work:

- Develop, write, modify, integrate and test Web site related code and Web application interfaces
- Conduct tests and analyze data to monitor quality, security, user interface experiences and to identify areas for improvement
- May participate in Web site architecture and design in collaboration with designers or clients
- Develop and implement procedures for ongoing Web site revision

Career pathways & potential earnings of Web Developers and Programmers

Web Developers and Programmers can progress into senior management and executive roles with adequate experience and knowledge:

Web Developer and Programmer



Developers and Programmers earn wages starting at \$18/hr, but can experience much growth, with wages near \$50/hr at the upper end.

System Architect



Developers with sufficient experience can find themselves in senior development and system architecture positions earning up to \$72/hr.

Computer and Information System Managers



Responsible for the computer and technical support needs of a department, computer and IS managers can earn up to \$77/hr.

Web Developers and Programmers can also apply their skills and expertise in other occupations such as the following:

- Database analysts and data administrators
- Computer programmers and interactive media developers

How do I become a Web Developer and Programmer?

There are some educational, licensing and training requirements to become a Web Developer and Programmer. Some requirements may vary by province or company. Below are the most commonly required qualifications to work as a Web Developer and Programmers:

- **Minimum Education:** A bachelor's degree, usually in computer science, computer programming, Web development or software engineering or completion of a college program in computer science or related field is usually required.
- **Certification, Licensing and Training:** Experience as a computer programmer is usually required.



Important skills to have as a Web Developers and Programmer?

Development of websites and web programs requires strong originality and idea fluency. Knowledge of several programming languages, development environments and media platforms is necessary to success in Web Development roles. Below are common skills and knowledge that Developers and Programmers may use and develop through their careers:

Technical Knowledge and Skills

- Computers and Electronics
- Communications and Media
- Programming
- Systems Evaluation and Analysis
- Web Platform Developing Software
- Object or Component Oriented Development Software

Soft Skills

- Inductive and Deductive Reasoning
- Judgement and Decision Making
- Coordination
- Originality
- Monitoring
- Fluency of Ideas

Future of Web Developers and Programmers in Canada

Web Developers and Programmers provide important services to businesses, and find employment in a variety of sectors. In 2021, more than 50,000 Developers and Programmers were employed across Canada's sectors and industries. Forecasts for this occupational group estimate more than 10,000 job openings in the Canadian economy over the upcoming decade for Web Developers and Programmers. Some oversaturation is expected, with 12,700 estimated job seekers over the same period.



Learn more about the job market for web developers and programmers, as well as about many other developments and new technologies in Canada's automotive manufacturing by visiting our website futureautolabourforce.ca.

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