Understanding the Role of Programmers

Exploring the Skills, Responsibilities, and Impact of Programmers in Today's Digital World
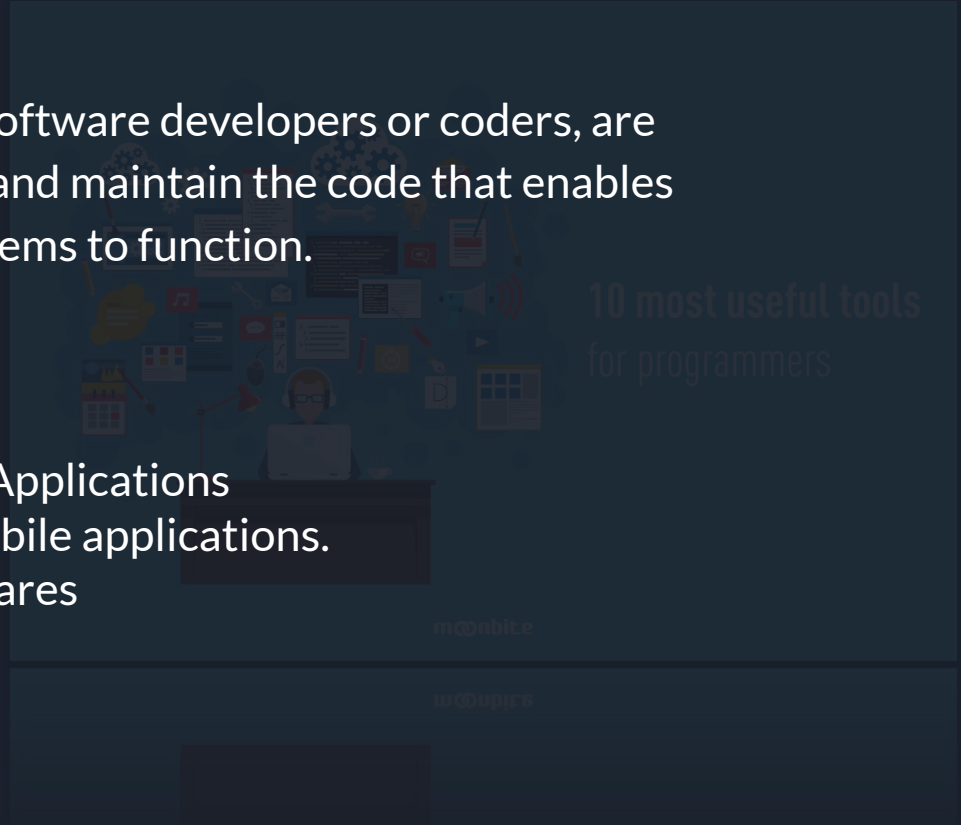
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Who Are Programmers?

Programmers, also known as software developers or coders, are professionals who write, test, and maintain the code that enables software applications and systems to function.

Roles

- Developing applications
- Creating Web and other Applications
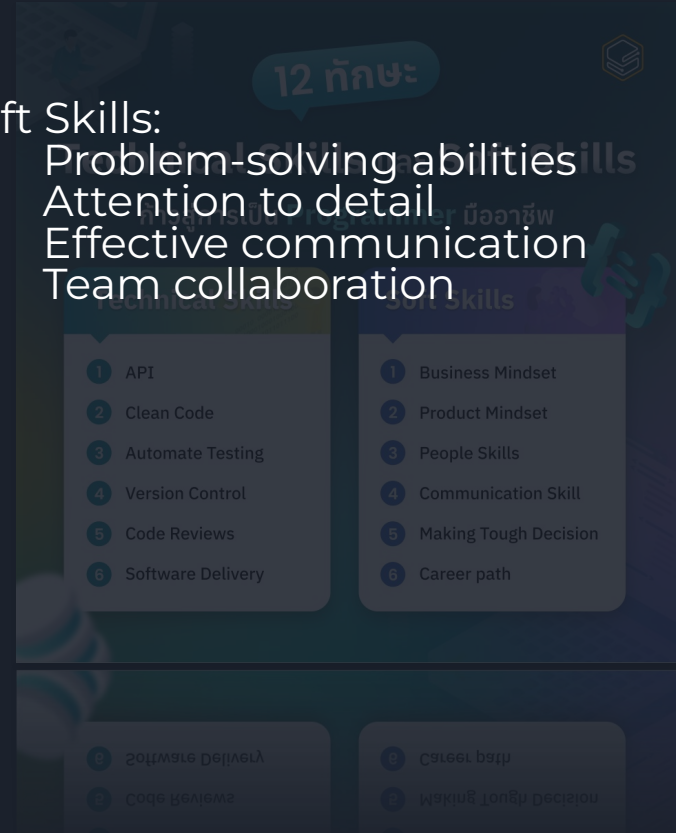- Building and Bundling mobile applications.
- Developing system softwares

Essential Skills for Programmers

Technical Skills:
- Proficiency in programming languages (e.g., Python, Java, C++)
- Understanding of data structures and algorithms
- Familiarity with databases and SQL
- Knowledge of software development methodologies

Soft Skills:
- Problem-solving abilities
- Attention to detail
- Effective communication
- Team collaboration

The Impact of Programmers on Society

Advancements:
- Automation of tasks
- Development of innovative technologies
- Enhancement of communication through social media platforms

Industries Transformed:
- Healthcare (e.g., electronic health records)
- Finance (e.g., online banking)
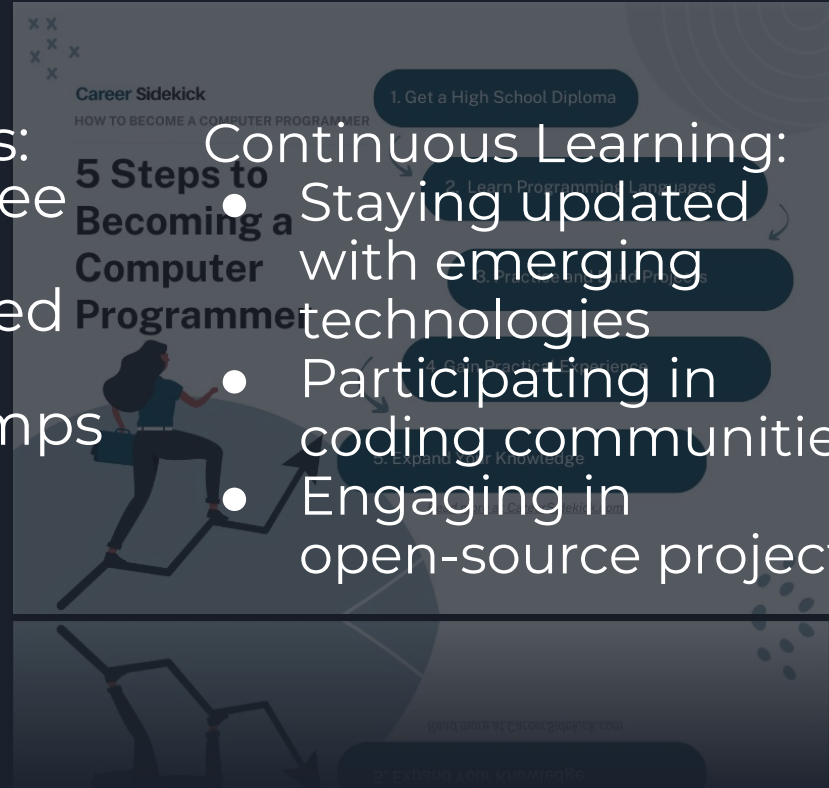- Education (e.g., e-learning platforms)

Pathways to Becoming a Programmer

Educational Routes:
- Bachelor's degree in Computer Science or related fields
- Coding bootcamps
- Self-taught through online resources

Continuous Learning:
- Staying updated with emerging technologies
- Participating in coding communities
- Engaging in open-source projects

Effective Presentations Rubric

	On Target	Almost There	Needs Improvement

Slide Deck Presentation
(45 points)   points

The presentation is organized, cohesive, and well-structured and contains five slides.
The presentation has a consistent look and feel. Slides are easy to read with a background that doesn't distract fr
The central idea of the presentation is consistently addressed and is the focus of the slide deck.
The images in the presentation apply to and enhance the purpose of the slides.
35-27 points

The presentation is mostly organized but may lack cohesiveness and structure or may include less than five slides
The presentation has a mostly consistent look and feel. There may be elements that distract from the purpose.
The central idea of the presentation is mostly addressed throughout the slide deck.
The images in the presentation mostly apply to the purpose of the slides.
26-0 points

The presentation is significantly less than five slides or missing altogether.
The presentation has an inconsistent look and feel. It is difficult to read and there are many distracting elements.
The central idea of the presentation is inconsistently addressed and is not the focus of the slide deck.
The images in the presentation do not apply to and/or enhance the purpose of the slides.

Grammar, Style, and Mechanics