

Một số khóa học về khoa học máy tính và lập trình MIỄN PHÍ

Các khóa học Computer Science/ Programming MIỄN PHÍ

Material Sources:

- Offline: Sách từ Thư viện trường, thư viện công cộng, Nhà sách
- Online: Web via Google search, Youtube via Google/Youtube search, MOOC, School web, Sách điện tử (pdf, epub)

Learning Tools:

- Computer/Laptop/iPad, Mobile
- Translate (Build-in Translate in Browser, Google Translate extension, Language Reactor)
- Notes (Notion, Apple Notes, OneNote)
- Read later (Pocket, Instapaper)

Free Courses:

Harvard

1/ CS50 from Harvard
cs50.harvard.edu/x/2023

2/ Programming with Python from Harvard
cs50.harvard.edu/python/2022

3/ Data Science with Python from Harvard
pll.harvard.edu/course/introduction-data-science-python/2023-10

4/ AI with Python from Harvard
pll.harvard.edu/course/cs50s-introduction-artificial-intelligence-python/2023-05

5/ Full Stack Web from Harvard
pll.harvard.edu/course/cs50s-web-programming-python-and-javascript/2023-05

Các khóa học khác của Harvard:

<https://pll.harvard.edu/catalog>

(Các khóa học trên edx về Data Science của Harvard:

<https://www.edx.org/search?subject=Computer+Science&partner=Harvard+University>)

(Các khóa học trên edx về Data Science:
<https://www.edx.org/search?subject=Computer%20Science>)

Stanford

6/ SQL from Stanford

online.stanford.edu/courses/soe-ydatabases0005-databases-relational-databases-and-sql

7/ Advanced SQL from Stanford

online.stanford.edu/courses/soe-ydatabases0001-databases-advanced-topics-sql

8/ Compiler Design from Stanford

online.stanford.edu/courses/soe-ycscs1-compilers

(Các khóa học Free khác của Stanford:

<https://online.stanford.edu/explore>)

(Các khóa học trên edx của Stanford:

<https://www.edx.org/search?subject=Computer+Science&partner=Stanford+University>)

Google

9/ New to Computer Science from Google

techdevguide.withgoogle.com/paths/new_to_cs

10/ Data Structures & Algorithms (DSA) from Google

techdevguide.withgoogle.com/paths/data-structures-and-algorithms

(Các khóa học khác của TechDevGuide:

<https://techdevguide.withgoogle.com>)

11/ Machine Learning from Google

developers.google.com/machine-learning/crash-course

12/ Advanced Machine Learning from Google

developers.google.com/machine-learning/advanced-courses

(Các khóa học Machine Learning khác của Google:

<https://developers.google.com/machine-learning/foundational-courses>

<https://developers.google.com/machine-learning/advanced-courses>)

Microsoft

13/ Java from Microsoft

learn.microsoft.com/en-us/shows/java-for-beginners

14/ JavaScript from Microsoft

learn.microsoft.com/en-us/shows/beginners-series-to-javascript

learn.microsoft.com/en-us/training/paths/web-development-101

learn.microsoft.com/en-us/training/paths/build-javascript-applications-typescript

15/ C# 101 from Microsoft

learn.microsoft.com/en-us/shows/csharp-101

16/ C# from Microsoft

learn.microsoft.com/en-us/shows/csharp-fundamentals-for-absolute-beginners

(Các khóa học khác của Microsoft:

<https://learn.microsoft.com/en-us/shows>)

(Các training khác của Microsoft:

<https://learn.microsoft.com/en-us/training/browse>)

freeCodeCamp

17/ C# from Microsoft via freeCodeCamp

freecodecamp.org/learn/foundational-c-sharp-with-microsoft

(Các khóa học về Web, Database, Machine Learning khác của freeCodeCamp:

<https://www.freecodecamp.org/learn>)

18/ HTML, CSS from freeCodeCamp

freecodecamp.org/learn/2022/responsive-web-design

19/ SQL from freeCodeCamp

freecodecamp.org/learn/relational-database

20/ NodeJS Back-end & APIs from freeCodeCamp

freecodecamp.org/learn/back-end-development-and-apis

21/ Python from freeCodeCamp

freecodecamp.org/learn/scientific-computing-with-python

22/ Data Analysis with Python

freecodecamp.org/learn/data-analysis-with-python

23/ Machine Learning with Python
freecodecamp.org/learn/machine-learning-with-python

MIT

24/ Mathematics (incl. Statistics) from MIT
ocw.mit.edu/search/?d=Mathematics&s=department_course_numbers.sort_course_number

25/ Deep Learning from MIT
introdeeplearning.com

26/ OS, Networking from MIT
ocw.mit.edu/courses/6-033-computer-system-engineering-spring-2018

Hongkong University of Science and Technology

27/ Java from HKUST
Part 1: edx.org/learn/java/the-hong-kong-university-of-science-and-technology-introduction-to-java-programming-part-1
Part 2: edx.org/learn/java/the-hong-kong-university-of-science-and-technology-introduction-to-java-programming-part-2

Các khóa học khác trên edx của HKUST:
<https://www.edx.org/school/hkustx>

CognitiveClass

28/ Data Science from Cognitive Class
cognitiveclass.ai/courses/data-science-101

(Các khóa học AI, Data Science, Machine Learning,... khác của CognitiveClass:
<https://cognitiveclass.ai/courses>)