

Development Roadmaps

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PROGRAMMING LANGUAGES

GENERAL

- [Eng Mohamed Hash](#)

C

- [The GNU C Reference Manual](#)
- [Academic C Programming Course \(in English\)](#)
- [Neso Academy C programming](#)

C++

- Dr Mostafa Saad: YouTube, Udemy, and Live [courses](#)
- Adel Nasim [YouTube](#)
- [Academic C++ Programming Course \(in English\)](#)
- [The Best C++ Tutorial](#)
- [C++ How to Program, 10/e - Deitel & Associates, Inc.](#)
- [The Cherno C++](#) (English)

JAVA

- **Oreilly**

- Videos: Java 8 Fundamentals [Oreilly](#) by Paul J. Deitel
- Book: Java How To Program, Late Objects, 11th Edition [Oreilly](#)
- Mosh Hamadani [YouTube](#)
- [Eng. Mostafa Elgazzar](#)
- [Codemasry](#) (Java and OOP)

C#

- Essam Abdul Nabi [YouTube](#)
- Muhammad Al Mahdi [YouTube](#)
- Books
 - C# in a Nutshell

PYTHON

- Dr Mostafa Saad [Udemy](#)
- Deep Dive series - [Udemy](#)
- [ElzeroWebSchool](#) Python Plan
- [Python ROADMAP](#)

JAVASCRIPT

- Ahmad Nasser [YouTube](#)
- Elzero Web School [YouTube](#)
- JonasSchmedtmann [Udemy](#)

PHP

- Jeffery Way [Laracasts](#)
- Programming with Gio [YouTube](#)

RUBY

- [The Odin Project](#)

Go

- [Gobyexample.com](#)
- [Learn to Go with Tests](#)
- [Gophercises](#)
- [Go Class](#)

RUST

- <https://doc.rust-lang.org/book/>
- <https://github.com/rust-lang/rustlings>
- <https://doc.rust-lang.org/rust-by-example/>
- <https://google.github.io/comprehensive-rust/>

BACKEND

GENERAL

- [Roadmap.sh](#)
- [Metwally Labs](#)
- [Meta Back-End Developer Professional Certificate | Coursera](#)
- Eng [Ghareeb](#)

DATABASE CONCEPTS

- [Practical Web Database design Book](#)
- [MySQL Database Performance Tuning](#)
- [DBMS by Stanford](#)

RUBY ON RAILS

- [The Odin Project](#)

LARAVEL

- Jeffery Way [Laracasts](#)
- Mahmoud Ibrahim. [YouTube](#)
- Laravel Daily [GitHub](#)
- IEEE Mansoura 2023 [Github](#)

DJANGO

- [Django Web Framework | Coursera](#)
- [Django ROADMAP](#)

SPRING BOOT

- [Learn Spring Boot - Baeldung](#)

- [Chad Darby Course - Udemy](#)
- [Roadmap. sh - Spring Boot](#)
- [Free Spring Boot Beginner Course instructed by professionals | Spring University](#)
- [Abanoub-Asaad](#)
- [Spring Boot Course by Eng Nour Shaheen\[Ar\]](#)

NODE.JS

- [NodeJS - The Complete Guide \(MVC, REST APIs, GraphQL, Deno\) | Udemy](#)
- [Node.js, Express, MongoDB & More: The Complete Bootcamp 2023 | Udemy](#)
- [\(10\) NodeJS and express in Arabic - اس و اکسپریس بالعربی - YouTube](#)
- [JonasSchmedtmann Udemy](#)
- [NodeJS - Build a Full E-Commerce RESTful APIs 2023](#)
- [NodeJS Course \(express, REST APIs, MongoDB\) With Book Store Application for Beginners | Youtube](#)

DOTNET

LINUX

- [Linux Documentation](#)
- [Linux Journey](#)
- [Linux crash course \(English\)](#)

DOCKER

- [Tresmerge Docker playlist](#)
- [Docker and Kubernetes | BigData in Arabic](#)

GIT&GITHUB

- Elzero web school [Git&GitHub](#)
- [Git&GitHub | big data in Arabic](#)
-

FRONTEND

GENERAL

- [Elzero](#)
- [Roadmap.sh](#) / [see](#)
- [Metwally Labs](#)
- Eng [Mohamed Hashem](#)
- [Eng. Mohamed Fadl](#)

REACT

- [The Ultimate React Course 2023: React, Redux & More | Udemy](#)
- [How to be a Full Stack React](#)
- [ReactJs-Build Full E-Commerce-Scratch Redux 2023 \(بالعربي\)](#)

ANGULAR

- [Angular 13 - Intro - YouTube](#) (ITI Course so should be deleted)
- [Angular - The Complete Guide](#)

REACT NATIVE

FLUTTER

- [Vandad Nahavandipoor \(English\)](#)
- [roadmap.sh/flutter](#)

IOS

- [Eng Essam Fahmi](#)

ANDROID

Useful channels

- [BK Programmer](#)
- [coding with nerds](#)

- [Philipp Lackner](#)
- [Ahmed Azz](#)
- [م.جعفر محمد الأغا](#)
- [Eslam Medhat | اسلام مدحت](#)
- [Stevdza-San](#)
- [Android Cookies](#)
- [Master Coding](#)
- [Roadmap.sh](#)
- [Ahmed Adel TITO Roadmap](#)

FULL STACK

- [Elzero](#)
- [Al Bonyan-al marsous](#)
- [The Odin Project \(React, Node.js\) or \(Ruby on Rails\)](#)
- [Full Stack open \(Nodejs, React, Expressjs\)](#)

MERN STACK

- [MERN Stack Blog App for Beginners \(React.JS, Node.JS, Express.JS, MongoDB, ReduxToolkit, Photo Upload \(Cloudinary\), Sending Email \(Nodemailer\), Authentication, Admin Dashboard\) | YouTube](#)

DEVOPS

- [Metwally Labs](#)
- [Mohamed Radwan - DevOps Step-By-Step](#)
- [DevOps General](#)

EMBEDDED SYSTEM

- [Different roadmaps from different Engineers](#)
- [Embedded Systems Roadmap](#)
- [Youssef Pro](#)
- [Roadmap for Most topics related to Embedded](#) (see post's end)

SECURITY

- [Ebrahim Hegazy](#)
- [Itsmetraw](#)

- [A friend](#)
- [Free CTF](#)
- [Free try hack me rooms](#)

MACHINE LEARNING / DATA SCIENCE

- Dr Mostafa Saad [Live course](#)
- Dr Mostafa Saad with [Ali Shahin](#)
- Dr Mostafa Saad 3 [videos big picture](#)
- Andrew ng [Machine Learning Specialization \[3 courses\] \(Stanford\)](#)
- [CoursRoad Map \(Youssef El-Gammal\)](#)
- [era](#)
- Andrew ng [Deep Learning Specialization \[5 courses\] \(DeepLearning.AI\) | Coursera](#)
- [Coding Minutes - Machine Learning Essentials](#)
 - Dr Mostafa note: Similar experience to Andrew ng intro
- [Code Basic](#)
- [Krish Naik](#)
- [Google Advanced Data Analytics](#)
- <https://whimsical.com/machine-learning-roadmap-2020-CA7f3ykvXpnJ9Az32vYXva>
(road map)



Reinforcement Learning

- David Silver - [UCL x DeepMind 2015 on youtube](#) + DeepMind have taught the same course in 2018, 2021..all of the lectures are also available on their YT channel.
- ANDREW BARTO AND RICHARD S. SUTTON - [Reinforcement Learning: An Introduction](#)

(the first edition was free to read, and I am 99% sure the second edition(2018) is also free
-see their website link above)