

Self Taught Developer Guide - Teddy Smith

C# Full Stack Software Engineer Road Map

This is a simple guide to become a software developer and meets the bare minimum to get hired. This road map includes everything you need and nothing else.

1 Month

Learn the fundamentals of programming/job research

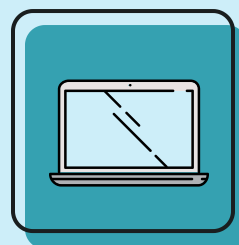
Computer programming is such a difficult pursuit that it is wise to spend at least a month learning the bare fundamentals. This includes if/else statements, for loops, functions, and data types. Resist the temptation to rush through the fundamentals because this will mess up the foundation of your programming. Start with Javascript because it is an easier language to learn and the learning materials are geared toward beginners, then begin learning C#. Also, spend a week looking at what jobs are hot in your area. C# may not be the best language and it may make more sense to code Python, Node, Ruby, etc.



2-3 Months

Learn a Javascript framework (Front End)

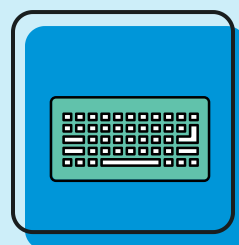
In 2020, all employers want developers to know a Javascript framework like React & Angular. Javascript frameworks provide the user interface (aka "web page") in a fast, dynamic format. Employers love JS frameworks because they allow you to build beautiful websites. Build a couple UI's and get down the basics, then move on to backend.



4-6 Months

Learn C# with OOP

C# is an incredibly powerful language but is far more difficult to learn compared to Python and JS. OOP is a very difficult concept to understand but is one of the most important aspects of software engineering. Take 2-3 months to slow down and learn.



6-8 Months

Learn .NET Web API (Backend) & EF CORE

API is essentially code that sits "on top" of a database. Just google every single course you can and take the best course x10. Memorize CRUD (Create Read Update Delete). You should essentially be able to do CRUD in your sleep. Focus in on Entity Framework because it is by far the most important database framework.



8 - 24 months

Begin building full stack web application

Take Neil Cummings course on Udemy. He will show you exactly how to make a full stack web app with Angular/.NET. YOU MUST MAKE THIS APP UNIQUE TO YOU. EMPLOYERS CAN TELL IF YOU COPY A COURSE APP. I hate to be mean and yell but people take shortcuts, waste time, and set themselves back months (even years!) not following this advice. Slightly alter a course app to fit your life in a unique way. Also, include two smaller apps with your "big app"



Finish

Start looking for work

After this you should have a fast, beautiful website built in Angular/.NET or React/.NET. Make sure the app is using SQL

