

# FULL STACK WEB DEVELOPMENT CURRICULUM

Learn the basics of object oriented programming, including basic .NET/C# syntax, how to use Visual Studio IDE, expressions and operators, methods and arrays.

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**WEEK 1**  
**BASIC OF OBJECT  
ORIENTED  
PROGRAMMING**

Understand the fundamentals of object oriented programming, learn to create .NET/C# classes and learn about inheritance and unit testing.

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**WEEK 2**  
**CLASSES &  
OBJECTS**

This unit teaches you more intricate concepts, including enums, collections and DateTime. Learn to use LINQ and the System.IO namespace.

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**WEEK 3**  
**INTERMEDIATE  
.NET/C#  
PROGRAMMING**

After this unit, your applications should have proper error handling, preventing them from failing when something goes wrong. You'll also learn dependency injection, as well as using mocking during unit testing.

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**WEEK 4**  
**ADVANCED .NET/C#  
PROGRAMMING**

This project demonstrates your ability to create a fully functioning .NET/C# application from scratch, given some standard business requirements.

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**WEEK 5**  
**.NET/C# MASTERY  
PROJECT**

Understand the basics of the ASP.NET MVC and HTML helpers and how to use them to create functional websites with forms. Learn about routing, model binding and server side validation.

**WEEK 6**  
**SERVER SIDE  
PROGRAMMING**

By studying JSON, AJAX, jQuery and more, learn to host a RESTful web service using Spring MVC's Web Frameworks and how to consume the service from the browser using the AJAX functionality in the jQuery library.

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**WEEK 7**  
**CONSUMING &  
CREATING REST  
WEB SERVICES**

Learn to create new databases in MySQL, as well as to query the database using the SQL language. Study basic queries, the data manipulation language, aggregate queries and more.

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**WEEK 8**  
**DATABASE DESIGN  
& BEST PRACTICES**

Using knowledge of ADO .NET, Entity Framework and Dapper, learn to utilize the databases you've created to pull information into your .NET/C# applications.

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**WEEK 9**  
**DATABASE  
INTERACTION**

Demonstrate a fundamental understanding of full-stack development and your ability to create a realistic application from scratch using the skills you've learned. In addition, mock interviews and resume and career counseling ensure you're prepared to succeed during your job search.

**WEEK 10-12**  
**CAPSTONE &  
CAREER SUPPORT**



**START**

**YOUR JOURNEY**

**ASSESSMENT**



**INTRODUCTION TO  
FULL STACK WEB  
DEVELOPMENT**  
(2 days)

**CODING BOOTCAMP  
FULL STACK WEB  
DEVELOPMENT**  
(12 weeks)



**PROJECT & OUTCOMES**

**PLACEMENT  
ASSISTANT**

