



15-Week Software
Developer Bootcamp

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The Tech Academy Software Developer Bootcamp Curriculum:

1. COMPUTER BASICS (7 day average completion time)

This course is the missing link in effective training in the software field. You will gain a comprehensive, solid understanding of nearly every major element of the technology industry. You'll learn:

- Clear definitions for every major technology term
- Algorithm theory and design
- Basic machine architecture
- Central Processing Unit operation
- Memory operation
- Fundamentals of creating a computer program
- Computer network principles
- Internet design and operation
- Web browser operation
- Social Media fundamentals
- Basic security Concepts
- And more...

2. OVERVIEW OF SOFTWARE DEVELOPMENT (4 day average completion time)

Here you will learn the basic elements that are fundamental to any computer program, leading to greater comprehension of every computer programming language you will learn in the future. You will have a comprehensive understanding of the basic actions of a Software Developer. You'll learn:

- Object-Oriented Programming basics
- Web Application basics
- Database basics
- What a Software Developer actually does
- What other skills a Software Developer needs
- How programs are made in this profession

- The attitude necessary to be successful
- How to think like a Computer Programmer
- Number systems
- Data structures
- What Flowcharting is and how it helps you to develop
- Registry basics
- Command line basics
- And more...

3. VERSION CONTROL (3 day average completion time)

Version control is a combination of specialized software that allows developers to keep track of various versions of a program. You will learn the various approaches to version control and use it on your own projects. You will also create an online portfolio where you will store most of your projects and assignments. You'll learn:

- What source control and version control are
- Why you must be able to use them
- How multiple people can work on one project
- Version control through and Git
- And more...

4. HTML & CSS (3 day average completion time)

This course covers the latest versions of HTML (Hyper Text Markup Language) and CSS (Cascading Style Sheets). All websites are made using HTML. CSS is a tool to manage the visual appearance and performance of the web pages made with HTML. You will gain a comprehensive understanding of HTML5 & CSS3. As well as a framework called "Bootstrap" with which you will create a personal profile website! You'll learn:

- Making an HTML5 website
- Basic web security
- Customizing it with CSS3
- All the fundamentals of CSS3
- Making creative and complex web page effects

- All the fundamentals of HTML5
- Bootstrap
- And more...

5. DATABASE & SQL (7 day average completion time)

A database is an organized collection of information; it can take many forms. A relational database is a database where different types of data are separated from each other, and where the relationships between those types of data are tracked. A RDBMS is a Relational Data Base Management System; it's a special software program that facilitates the management of relational databases, allowing you to create, read, update and delete data in the database. There exists a specialized programming language used in database operations, called Structured Query Language (SQL). You will learn the principles behind all of these tools, including:

- Why databases are so important to development
- Database fundamentals
- CRUD (Create, Read, Update, Delete) operations
- How a RDBMS works
- How databases are used in Web Applications
- How to create your own database
- What the Windows Registry is and how to use it
- What SQL is and how to use it to create and use databases and the data in them
- And more...

6. JAVASCRIPT (6 day average completion time)

JavaScript is a versatile, popular programming language that is often used to add interactive elements to web pages. It is very much in demand. You will learn the fundamental elements of the JavaScript language. You will also have the opportunity to return to the personal profile page you created in the HTML & CSS course and to it using javascript. You'll learn:

- History and background of JavaScript
- Fundamental elements of JavaScript and how to create programs using the language
- Modifying your web pages using JavaScript
- Using JavaScript in combination with HTML5 and CSS3 to create dynamic web pages
- Using JavaScript in Bootstrap
- And more...

7. VISUAL STUDIO (1 day average completion time)

Visual Studio is an Integrated Development Environment from Microsoft – a software program that helps you in the process of making software programs. It brings together in one place all of the tools you'll need to make software. Learning to use Visual Studio well will make all of your learning and job duties go faster. You'll learn:

- Installing Visual Studio
- Writing code in a programming environment
- Analyzing your program step-by-step with Visual Studio
- And more...

8. C# & ASP.NET (18 day average completion time)

C# is a very powerful, mature programming language that can be used to create the most complex and robust of software programs, capable of satisfying the needs of large businesses. It is one of the most in-demand languages in the software development field. You will learn the fundamental elements of this popular language, enabling you to create your own software programs, and getting you well-prepared for your career as a developer. ASP.NET allows a developer to create powerful web applications while working with C#. You'll learn:

- The .Net Framework
- All basic syntax of the C# language and how to use it to implement programming fundamentals
- Principles of Object-Oriented Programming using C#
- The ASP.NET Web Application Framework and its model for delivering interactive web sites
- And more...

9. PROJECT MANAGEMENT (1 day average completion time)

The process of building complex software is challenging, and involves the use of special tools and project management procedures in order to achieve a satisfactory outcome. On this course, you will learn the popular project management technologies used in the software development world, including Agile and Scrum. You'll learn:

- Project management basics
- Traditional project management
- Agile project management principles
- Scrum fundamentals
- How to operate as part of a development team
- And more...

10. LIVE PROJECT (10 day average completion time)

Every student is given the opportunity to partake in an exercise which involves a real world software development project. Our live projects allow a student to put the programming skills they learn to use on practical assignments that mirror actual software development projects one could run across on a real contract. Most of our live projects are done with Prosper I.T. Consulting, a Portland-based software development company. This allows students to be involved in a project that has a real-life client on the other end of it. The live project will be an essential part of your resume and will be included in your portfolio as a developer.

11. JOB PLACEMENT (3 day average completion time)

Quite apart from the technical knowledge, we know that the process of getting hired has its own specialized challenges. We've put together the hard-won knowledge you'll need to ensure you've got the best possible chance of getting a good job in technology. In fact, you'll receive one-on-one assistance from our Job Placement staff.

The majority of our graduates have found a job in the Tech field. We look forward to hearing from you!

Start Today!