Course Syllabus

Introduction to GitHub Copilot in a Web Development Environment Bootcamp

We are glad you have joined us for this course! Here is some information that will help you to navigate your learning platform and locate course content.

Joining the Session
Before the first live session please confirm that you can access Zoom:

1. Visit https://support.zoom.us and click on **Getting Started**.
2. Attn Percipio Users - The **Join live course** option is available where you registered for the session in Percipio 15 minutes prior to the start of class.

Course Description

GitHub Copilot uses generative AI models developed by GitHub, OpenAI, and Microsoft. Copilot recognizes the programming language and the context in which you are developing and offer suggestions on that basis. It offers suggestions based on historical data and within the environment that the developer is in. It is even able to splice in code explanations and answers to users questions on the various GitHub forums. Specifically, Copilot is good for code completion, building unit tests, refactoring code, code translation and software documentation.

Target Audience
Newer JavaScript programmers with at least 1 year of working experience. Any other programmer with more than 2 years' experience but have never worked with an AI tool like Copilot.

Objectives
After completing this course participants will be able to use GitHub Copilot for tasks such as:
- Code completion
- Starting a project
- Refactoring code
- Preparing prompts

Environment

To follow along with the instructor's demonstrations presented throughout the bootcamp, we have provided Percipio users with a dedicated sandbox on the Practice tab in the "Introduction to GitHub Copilot in a Web Development Environment Bootcamp" Channel. This sandbox is fully configured with the required software and the files used by the instructor have been added.

If applicable, please check with your IT department if you intend to install software locally. The software required to recreate the sandbox experience is below:

There are no special environmental setup for this bootcamp.
The instructor will be using a Linux VM along with VS Code.
Any OS will work for this bootcamp.

Please Note: This is NOT a typical bootcamp with a structural start and finish, this bootcamp will go in the direction of the AI tool. The coding shown will NEVER finish and that is by design. The code itself is not important, the most valuable part of this bootcamp is awareness of the prompts. It is the craftiness of prompts that direct the code suggestions. The tool will be used in a variety of web development situations. Pay attention to each environment being shown and the prompts being used.

The tool is constantly changing, and new features are being added almost on a weekly basis. This bootcamp is NOT about that, it is about using the tool directly inside of a web development environment to get a quick start using the tool.

You do not need to know or install the specific open-source tools that the instructor uses, however all tools are free to download.

Technical Support

We offer 24/7 support if you need assistance with your Percipio or Skillport learning platforms. To access support, click the initials of your profile and select "Help".

Percipio