



## COURSE SYLLABUS

# GitHub Copilot for AI-Assisted Software Development

Develop, test and review code with GitHub Copilot in the IDE, the CLI and on GitHub, configure its privacy and organization settings, and prepare for the GitHub Copilot (GH-300) exam.

**\$800 per person; the GH-300 exam fee is not included**

8 course hours (on-demand video and labs) plus 1 hour of coaching

On-demand asynchronous training with online support, plus 1 hour of coaching.

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| <b>Credential type</b>  | Certificate, issued by We Can Code IT                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Clock hours</b>      | 9 (8 course hours plus 1 hour of coaching)                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Price</b>            | \$800 per person; the GH-300 exam fee is not included                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Time</b>             | 8 course hours (on-demand video and labs) plus 1 hour of coaching                                                                                                                                                                                                                                                                                                                                                        |
| <b>Delivery</b>         | On-demand asynchronous training with online support, plus 1 hour of coaching.                                                                                                                                                                                                                                                                                                                                            |
| <b>Credential</b>       | Certificate of completion from We Can Code IT                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Exam preparation</b> | GitHub Copilot (GH-300). The course follows the skills measured for the exam as of August 7, 2026 and prepares you to take it. The exam is not included in the course price; you register and pay for it through Microsoft Learn. Most learners add self-study and practice assessments before the exam.                                                                                                                 |
| <b>How you earn it</b>  | You earn the We Can Code IT certificate by completing the labs and a capstone change built, tested and reviewed with Copilot, reviewed by your coach. The GitHub Copilot certification is earned separately by passing the GH-300 exam.                                                                                                                                                                                  |
| <b>Who it is for</b>    | This course is for software developers, test automation engineers, DevOps staff, technical leads and technical founders who use or administer GitHub Copilot.                                                                                                                                                                                                                                                            |
| <b>Prerequisites</b>    | Introduction to GitHub with AI, or working knowledge of GitHub repositories and pull requests; Experience with at least one programming language                                                                                                                                                                                                                                                                         |
| <b>Requirements</b>     | Works on Windows, macOS or Linux; Visual Studio Code (free) and a free GitHub account; GitHub Copilot: Copilot Free covers many labs; the coding agent and Copilot code review need a paid Copilot plan (Pro or higher), and content exclusions, organization policies and audit logs need Copilot Business or Enterprise, so those labs use a practice organization we provide. We confirm your access before you start |

## About this course

This course teaches you to use GitHub Copilot as a working developer: inline suggestions, Copilot Chat, Copilot Edits and agent mode with MCP servers, the Copilot CLI, the coding agent and Copilot code review on GitHub. You learn how Copilot builds prompts from context and handles data, write prompts and instruction files that get consistent results, generate tests and refactor legacy code, and configure

content exclusions, public-code filtering and organization policies. The modules follow the skills measured for the GitHub Copilot (GH-300) exam as of August 7, 2026. The exam is not included in the price.

## What you will be able to do

- You will be able to use GitHub Copilot inline suggestions, Chat, Copilot Edits and agent mode with MCP servers to build and change code in the IDE.
- You will be able to install and use the GitHub Copilot CLI to run sessions, generate scripts and manage files.
- You will be able to use Copilot on GitHub for pull request summaries, code review with custom instruction files, and delegating issues to the coding agent.
- You will be able to write zero-shot and few-shot prompts and reusable prompt files, and explain how Copilot determines context.
- You will be able to generate unit and integration tests, refactor and document legacy code, and validate Copilot output for errors and security issues.
- You will be able to configure content exclusions, public-code filtering and organization-wide Copilot policies, and use audit log events.

## Syllabus

| Module                                                                                                                                                                                                                                                                                                                                           | Hours |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| <b>1. Using GitHub Copilot responsibly</b><br>Risks and limitations of generative AI, Ethical and responsible use, Harms and mitigations, Validating AI output.<br>Lab: You will catch and correct three plausible but wrong Copilot suggestions in a starter project.                                                                           | 0.5 h |
| <b>2. Copilot in the IDE</b><br>Enabling Copilot, Inline suggestions and Copilot Chat, Copilot Edits, Agent mode, agent sessions and sub-agents, MCP servers.<br>Lab: You will build a small feature with Copilot Chat, then extend it in agent mode with an MCP server connected.                                                               | 1.5 h |
| <b>3. Copilot CLI and Copilot on GitHub</b><br>Installing and using Copilot CLI, Pull request summaries, Copilot code review and instruction files, The coding agent, Spaces and Spark.<br>Lab: You will generate a script with Copilot CLI, assign an issue to the coding agent, and run Copilot code review against your own instruction file. | 1 h   |
| <b>4. Prompt engineering and context</b><br>Prompt structure, How Copilot determines context, Zero-shot and few-shot prompting, Chat history, Reusable prompt files.<br>Lab: You will rewrite three weak prompts, measure the difference in results, and save the best as a prompt file.                                                         | 1 h   |

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| <b>5. How Copilot works: data and architecture</b><br>Data usage and flow, Prompt building, Proxy filtering and post-processing, Suggestion lifecycle and model limits.<br>Lab: You will trace one suggestion from prompt to output and identify where filtering applies.                                                                                                                                                 | 0.5 h |
| <b>6. Productivity, testing and security</b><br>Code generation, refactoring and documentation, Modernizing legacy code, Sample data, Unit and integration tests and edge cases, Security and performance suggestions.<br>Lab: You will have Copilot write tests for a legacy function, refactor it safely, and apply one security improvement.                                                                           | 1.5 h |
| <b>7. Privacy, content exclusions and administration</b><br>Content exclusions and editor settings, Public-code filtering, Ownership of outputs, Organization policies and code review policies, Audit log events and subscription management.<br>Lab: You will configure public-code filtering on your account, then set content exclusions and review Copilot policies and audit log events in a practice organization. | 1 h   |
| <b>8. Capstone and exam readiness</b><br>Feature with tests and review, GH-300 skills review, Practice assessment.<br>Lab: You will complete a practice assessment and walk your coach through a Copilot-built, tested and reviewed change.                                                                                                                                                                               | 1 h   |
| <b>Coaching sessions</b><br>1 hour of coaching. Your coach reviews your capstone with you and answers questions as you work. Teams pool their hours into group sessions, so a team of 6 shares 6 hours of group coaching.                                                                                                                                                                                                 | 1 h   |

Live online or in-person sessions are available for an additional fee. Email [admissions@wecancodeit.org](mailto:admissions@wecancodeit.org) for details.

## Provider

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