

# Agentic Software Engineering using GitHub Copilot (GHAGENTS)

ID GHAGENTS Prix CHF 1 990,- (Hors Taxe) Durée 3 jours

## A qui s'adresse cette formation

- Software Engineers interested in leveraging AI agents to enhance their coding productivity and capabilities
- Software Architects looking to understand how to integrate and manage AI agents within software development lifecycles
- Team Leads and Managers aiming to explore how AI agents can be utilized to optimize team workflows and project outcomes

## Pré-requis

Experience with software development at a professional level

## Contenu

### Module 1: GitHub Copilot Fundamentals

- GitHub Codespaces / Dev Containers
- GitHub Copilot Introduction
- Selecting Models
- AI Assisted Coding
- Slash Commands & Agent Controls
- Context Variables
- Pull Requests & Code Reviews
- Management and Settings

### Module 2: GitHub Copilot Artifacts & Tools

- Copilot Instructions
- Prompt Files
- Model Context Protocol
- Custom Agents
- Agents Overview
- Repository Agents
- Claude Agents
- Agent Skills
- Copilot Memory
- Understanding and Shaping GitHub Copilot's Context Window
- GitHub Copilot Hooks
- Agent Plugins
- Agent Debug Panel
- Creating Customizations from Chat

### Module 3: Implementing Agentic Coding

- Using Local Agents and Agent Mode
- Delegating Tasks to Cloud Agents
- Using Background Agents
- Multi Agent Orchestration
- Using Anthropic Claude Code Agents
- Agentic Browser Automation

### Module 4: GitHub Copilot CLI, SDK and Advanced Topics

- GitHub Copilot CLI
- Business Case: HR Document Updates Automation
- GitHub Agentic Workflows
- GitHub Copilot SDK
- Copilot SDK Demos
- Implementing & Using MCP Apps

### Module 5: Agentic DevOps

- Automation using Azure CLI
- Azure Developer CLI (azd) Agentic Mode
- Infrastructure as Code (IaC) – Bicep & Terraform
- Azure DevOps Pipelines & GitHub Actions

### Module 6: Spec-Driven Development Foundations

- Spec Driven Development
- Spec-driven workflow
- Constitution, Specification and Technical Plan
- Tasks & Implementation
- Getting Started with GitHub Spec Kit
- Exercise: Implement a product feature using GitHub Spec Kit

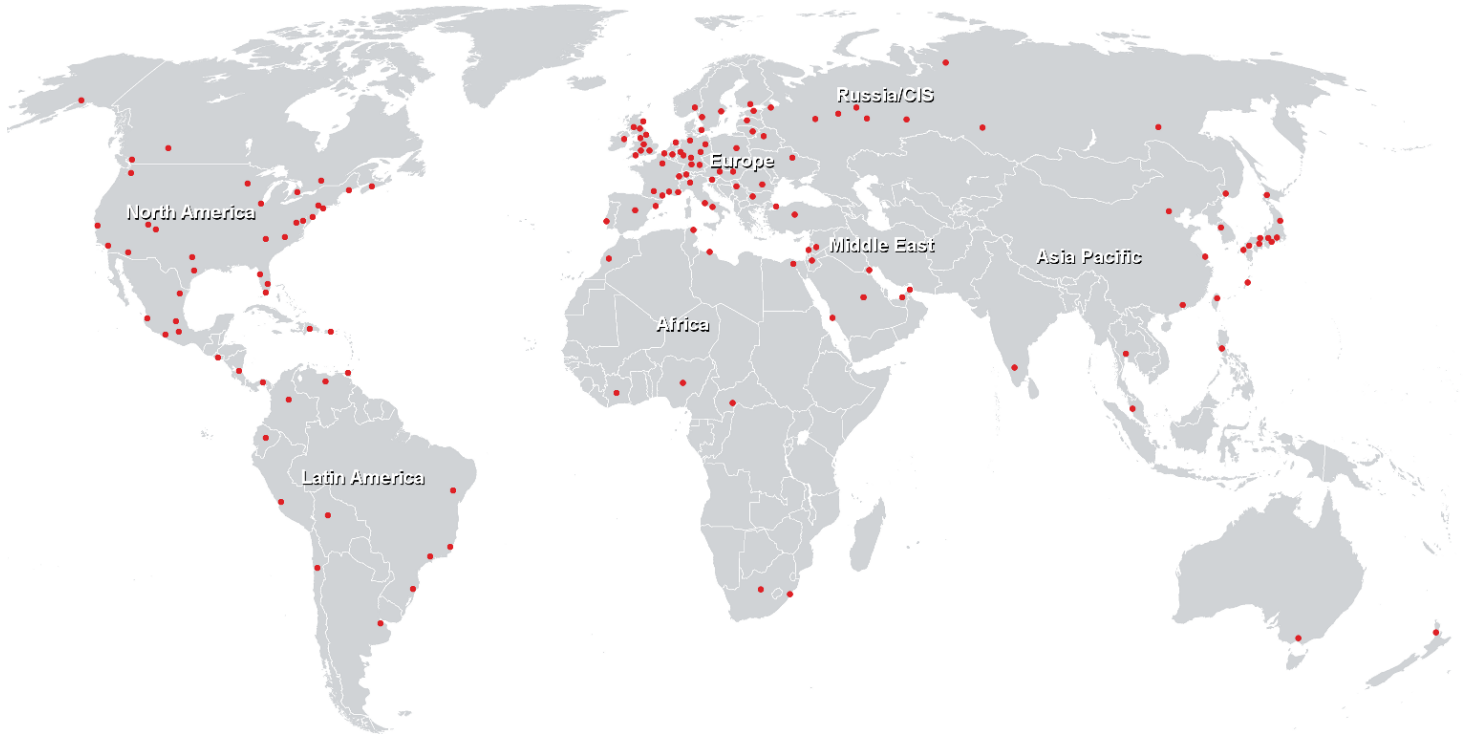
### Module 7: Capstone Project: End-to-End Agentic Development

- Planning & Proof of Concept
- Orchestrating & Implementation
- Upgrading & Modernization
- Testing using Copilot
- Using Copilot for Documentation

# Agentic Software Engineering using GitHub Copilot (GHAGENTS)

---

## Centres de formation dans le monde entier



## Fast Lane Institute for Knowledge Transfer (Switzerland) AG

Husacherstrasse 3  
CH-8304 Wallisellen  
Tel. +41 44 832 50 80

info@flane.ch, <https://www.flane.ch>