



Agent Driven Software Development

- 3.5 Hours
- Lecture and Hands-on Labs

Course Overview

Learn how to use Claude Code as an AI development agent to explore unfamiliar codebases, modify existing software, build new features, and integrate changes safely into real projects. This hands-on course teaches prompt design, code review, debugging workflows, and cost-aware AI-assisted development techniques for modern software teams.

Who Should Attend

- Junior developers onboarding to unfamiliar codebases
- Experienced developers joining new teams or legacy projects
- Tech leads or senior engineers mentoring others through codebase discovery
- QA, DevOps, or support engineers who need to trace behavior and safely suggest code changes

What You'll Learn

- Learn how to install, configure, and authenticate Claude Code for local development workflows.
- Use AI agents to rapidly explore and understand unfamiliar or legacy codebases.
- Develop effective prompting strategies for modifying existing application behavior safely and predictably.
- Build entirely new functionality inside an existing project using agent-driven development techniques.
- Review, validate, debug, and refine AI-generated code changes before integration.
- Manage model usage, context size, and token cost while working on real-world software projects.

Outline

Labs

- Lecture: Why Developers Get Stuck
- Lecture: Defining Claude Code
- Lecture + Lab: Install and Configure Claude Code
- Lecture: Managing Cost with Claude Code
- Lecture + Lab: Exploring a Codebase with Claude Code
- Lecture: Modifying Existing Code with Claude Code
- Lecture + Lab: Modifying a Codebase with Claude Code
- Lecture: Building New Code with Claude Code
- Lecture + Lab: Build New Functionality into a Codebase
- Lecture + Lab: Integrating and Finalizing a Project
- 🏆 Final Challenge

Prerequisites

- Claude Subscription