

Capstone Project

Capstone — Generative AI Boot Camp for Developers — Exported 2026-09-02

Time: 60 min (can continue after workshop) | **Day 3 PM**

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Overview

The capstone challenges you to build a complete AI-enabled developer workflow integrating multiple techniques from the workshop. This is self-directed — you choose the tools, providers, and scope. Continue after the workshop as a portfolio project.

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Challenge

Build an AI-enabled developer workflow for a sample project (your choice). Your workflow must include:

Required Components

- **Prompt Templates:** At least 3 reusable prompt templates for common dev tasks
- **Code Generation:** Use GenAI to generate a feature from specification
- **Testing Automation:** Generate and run tests for the generated code
- **CI/CD Integration:** Add an AI review step to a CI pipeline

Optional Components (choose at least one)

- **RAG Layer:** Ground AI responses with project-specific documentation
- **Agent Workflow:** Build a multi-step agent that automates a dev task
- **Documentation Generation:** Auto-generate API docs or README from code

Self-Assessment Checklist

- ☐ Prompt templates are versioned and reusable
- ☐ Generated code passes review and tests
- ☐ CI pipeline runs successfully with AI review step
- ☐ At least one optional component implemented
- ☐ You can explain every AI-generated component

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Resources

- All module labs and reference guides from this workshop
- OpenCode, Claude Code, Codex — whichever tools you prefer
- Your workshop VM remains available for continued work

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Where to Go from Here

1. **Immediate:** Complete this capstone and add it to your portfolio
2. **Next week:** Identify one real task in your work to automate with AI
3. **Next month:** Build a team prompt library and share it with colleagues
4. **Next quarter:** Propose an AI adoption roadmap for your team

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