# AI Developer Intern – 3-Month Training Plan

## Month 1: Foundations & Tools

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| Week | Topics | Learning Activities | Deliverables |
| Week 1 | Introduction to Generative AI & LLMs - LLM concepts (GPT, Claude, Gemini) - AI in EdTech | Online tutorials Explore OpenAI Playground | Short presentation on how LLMs can automate courseware |
| Week 2 | Prompt Engineering Basics - Prompt patterns (zero-shot, few-shot) - Output formatting | Practice prompt templates Test content generation (lessons, quizzes) | Prompt library for courseware use cases |
| Week 3 | API Integration - OpenAI API - LangChain basics | Use Python to call APIs Generate multiple content types | Script to automate course outline and content generation |
| Week 4 | Version Control & Collaboration - GitHub workflow - Markdown & JSON structuring | Submit work via GitHub Collaborate on prompt editing | First mini project: Generate full lesson draft from topic input |

## Month 2: Workflow Automation & Courseware Logic

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| Week | Topics | Learning Activities | Deliverables |
| Week 5 | Courseware Design Principles - SCORM, xAPI basics - Instructional design | Review lesson structure standards Map LLM outputs to learning objectives | Template for AI-generated lesson plans |
| Week 6 | LLM Automation Pipelines - LangChain chains - Simple RAG integration | Build basic pipelines Try document-based Q&A | Pipeline that generates lesson content and quiz from syllabus |
| Week 7 | Tools & Frameworks - Intro to n8n / AutoGen / CrewAI (optional) | Build small automation workflow Test agentic workflows | n8n workflow that triggers AI content generation |
| Week 8 | Content Evaluation - Hallucination handling - Rubrics for AI output quality | Evaluate generated content Collect feedback from reviewers | Quality report on AI-generated content |

## Month 3: Project Implementation & Presentation

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| Week | Topics | Learning Activities | Deliverables |
| Week 9 | Capstone Planning - Choose problem statement (e.g., automate quiz generator) | Ideation + prototype plan | Capstone project proposal |
| Week 10 | Development Sprint | Work on project in sprints Weekly check-ins | MVP version of the automation tool |
| Week 11 | Testing & Feedback | Peer testing Revise based on feedback | Final version of automation tool |
| Week 12 | Presentation & Handover | Create slide deck Present to mentors/team | Demo + final documentation on GitHub |