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Agentic AI Training Program

From Zero to Production-Ready

40 Hours of Hands-On Learning (Part-Time)

The AI Skills Gap & Opportunity

The Problem

The Industry Reality:
- Companies need engineers who can ship AI features now
- Most developers don't know how to build production AI systems
- Tutorials teach toy examples, not real deployments
- Theory-heavy courses with minimal hands-on practice

The Opportunity

For You:
- Contractors with AI skills command premium rates
- Every client is asking "Can we add AI to this?"
- The gap between knowing Python and building production AI agents is massive

✓ **This program closes that gap in a short time.**

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What You'll Actually Build

5 Labs + Capstone = 6 Deployed Applications

Module	Project	Skills
Lab 1	AI-Assisted URL Shortener	Vibe Coding, AI tools, full-stack
Lab 2	Code Analyzer Agent	Advanced prompting, structured output
Lab 3	Migration Workflow System	Agent patterns, multi-step reasoning
Lab 4	RAG System + Evaluation	Embeddings, vector DB, metrics
Lab 5	Multi-Agent Orchestration	Supervisor pattern, agent coordination
Capstone	Your Choice (4 options)	Production deployment, integration

✓ **Timeline:** 40 hours total, typically completed over 3 weeks part-time (13-15 hours/week)
✓ **Plus:** 4 capstone project options + 18+ optional practice projects (2-45 hours each) to continue learning
✓ **Each project:** Working GitHub repo + production deployment + real URL to share

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Your Learning Path at a Glance

40 Hours Across 5 Modules (3 Weeks Part-Time)

✓ **Module 1: GenAI Foundations & Vibe Coding**
- How LLMs work (practical level)
- Model comparison: Claude vs GPT-4 vs Gemini
- AI-first development methodology
- Tools: Claude Code, Cursor, Copilot
- **Project:** URL Shortener

✓ **Module 2: Advanced Prompting for Engineering**
- Chain-of-Thought, few-shot, self-consistency
- Code-focused prompting (generation, review, debug)
- Multimodal: images, PDFs, screenshots
- Build personal prompt library
- **Project:** Code Analyzer Agent

✓ **Module 3: Agent Architectures**
- Agent loop: Observe ➜ Think ➜ Act
- Memory systems and context management
- ReAct, Planning, Verification patterns
- Multi-agent orchestration
- **Project:** Migration Workflow System

✓ **Module 4: RAG & Evaluation**
- Embeddings, vector databases, chunking strategies
- Evaluation metrics: precision, recall, MRR
- LLM-as-judge evaluation
- Debugging and observability
- **Project:** RAG System with Evaluation

✓ **Module 5: Production & Capstone**
- Rate limiting, caching, security, cost optimization
- Responsible AI and governance
- **Capstone:** Choose from 4 projects (code review bot, documenter, tech debt analyzer, multi-agent system)
- Deploy, demo, showcase

✓ **Philosophy:** Learn by doing. Deploy with each module. Production patterns from module 1.

✓ **Typical Schedule:** 13-15 hours/week over 3 weeks (flexible, self-paced within cohort).

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What Makes This Different?

5 Key Differentiators

1. **Zero Theory-Only Content**
   a. Deploy something real every single day
   b. Production patterns, not toy examples
2. **LLM-Agnostic Skills**
   a. Works across Claude, GPT-4, Gemini, local models
   b. Not locked into one provider
   c. Skills apply when new models launch
3. **Contractor-Focused**
   a. Immediately applicable to client projects
   b. Learn to scope and estimate AI features
   c. Build portfolio pieces you can show
   d. Templates for common patterns
4. **Complete Ecosystem**
   a. 40h curriculum + 5 labs + 9 guides + 7 templates + 18+ exercises
   b. Both Python AND TypeScript for all labs
   c. Free and paid API options
5. **Production-Ready**
   a. Security (prompt injection prevention)
   b. Cost optimization (60-80% savings)
   c. Monitoring and observability
   d. Responsible AI and governance

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Who Should Take This?

Ideal Participants & Prerequisites

Primary Audience:
- **Senior/experienced software engineers** adding AI to skillset
- **ML engineers** transitioning to LLMs
- **Tech leads** evaluating AI for teams

Required Prerequisites:
- Proficiency in Python **OR** TypeScript/JavaScript
- Experience building web apps or APIs
- Comfortable with Git, CLI, cloud deployments
- Understanding of REST APIs and JSON

No AI experience required. We start from zero on LLMs.

Mindset: You learn by building.

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Technology & Costs

Choose Your Path

Languages (Pick One):
- **Python:** FastAPI, Pydantic, ChromaDB
- **TypeScript:** Hono, Zod, OpenAI SDK

LLM Providers (Pick Any):
- Anthropic Claude, OpenAI GPT-4, Google Gemini, Local (Ollama)

Deployment:
- Vercel (frontend), Railway (backend), Docker-ready

Cost Options:

Item	Free	Paid
API usage	$0 (Gemini free tier)	$20-60 (GPT-4/Claude)
Deployment	$0 (free tiers)	Optional
Tools	$0 (Claude Code)	$20/mo (Cursor Pro)

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Program Logistics & Preparation

Duration: 40 hours total, typically completed over **3 weeks part-time**
- **Flexible schedule:** Work at your own pace within the cohort timeframe
- **5 modules:** Each ~8 hours (theory + hands-on project + deployment)

Format:
- Self-paced learning with structured modules
- Live Demo sessions once per week + Slack Channel for support
- Capstone presentation at end of week 3

Before starting Module 1, complete setup:
1. Install Python 3.10+ OR Node.js 18+
2. Git and GitHub configured
3. Code editor (VS Code recommended)
4. LLM API keys (free: Google AI Studio / paid: OpenAI or Anthropic)
5. Vercel + Railway accounts (free tier)

Setup Guide: guides/getting-started.md (30-60 min)

What This Requires:
- 40 hours over 3 weeks (~13-15h/week)
- Experimentation mindset (try, break, learn)
- Complete each module's project before moving forward

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THANK YOU

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