

AI Transformation Lead Program

Location: Online

Module 1	AI Engineering in Practice	
	From Vibe Coding to Production	2 hours
	Prompt Engineering: The RESPCT Framework	2 hours
	AI Coding Agents I: Context, Memory, Tests & Plan Mode	4 hours
	AI Coding Agents II: Spec Kit, MCPs & Parallel Agents	4 hours
	RAG from the Ground Up	4 hours
	Advanced Retrieval: HyDE, RAPTOR & Agentic RAG	2 hours
	Building Agents in Production with LangGraph	4 hours
	AI Transformation	1.5 hours
Module 2	AI Project Pods	16 hours
	Project workshops in pods of 10–15 participants	
Module 3	AI Leadership Workshops	9 hours
Module 4	1:1 AI Lead Coaching	3 hours

שימו לב: על מנת להבטיח שתקבלו את הכלים והפרקטיקות העדכניים ביותר, הסילבוס מתעדכן *
באופן שוטף מדי שבוע ואינו סופי**

Target Audience

Software Developers

55% Reservists – up to 10 years from the date of discharge from the military

Course Syllabus

From Vibe Coding to Production: The State of AI Engineering

2 hours

1. **The Dawn of “Vibe Coding”** – Andrej Karpathy, the evolution of engineering, and the ultimate vibe technique
2. **The Reality Check** – the upside, the “Production Gap,” and the Burnout Paradox
3. **Keeping Pace** – trends, the speed of technological advancement, and how to stay up to date
4. **A First Look at the Cutting Edge** – Beads, Tasks MCP, Ralph Wiggum, and Peon
5. **Case Studies** – vibe coding in action
6. **What’s Next** – predictions for models, tools, and the work environment

Prompt Engineering: The RESPCT Framework

2 hours

1. **Getting the Fundamentals Right** – common pitfalls and better approaches
2. **The RESPCT Framework:**
 - (R) Role: Creating better semantic relationships
 - (E) Example: Providing additional context
 - (S) Structure: Controlling input/output format
 - (P) Pipeline: Breaking down complex prompts
 - (C) Constraints: Setting limits for the model
 - (T) Task: Clear instructions for desired outcomes
3. **Engineering a Prompt, Iteration by Iteration** – a worked example
4. **Optimization Techniques**

AI Coding Agents I: Context, Memory, Tests & Plan Mode

4 hours

The New Developer Workflow

1. The new coding spectrum
2. More validation, less generation
3. Five levels of autonomy
4. Developer fatigue

Core Topics

1. Different models for different tasks
2. Effective prompt engineering
3. Context management
4. Memory
5. Tests
6. Slash commands
7. Skills
8. Desloping
9. Agents
10. Plan mode

Hands-on Exercises

1. Context management
2. Tests
3. Plan mode
4. Skills

AI Coding Agents II: Spec Kit, MCPs & Parallel Agents

4 hours

Scaling Up

1. Throughput
2. Production

Core Topics

1. Spec Kit
2. MCPs
3. Large codebases

4. Code review tools
5. Parallelizing work
6. Common multi-agent patterns

Hands-on Exercises

1. Spec Kit
2. MCPs
3. Parallel agents

RAG from the Ground Up: Embeddings, Chunking & Retrieval

4 hours

1. In-context learning
2. Loading & data splitting
3. Embedding
4. Chunking
5. Vector similarity
6. Embedding-based retrieval

Advanced Retrieval: HyDE, RAPTOR & Agentic RAG

2 hours

1. HyDE
2. RAPTOR
3. Agentic RAG

Building Agents in Production with LangGraph

4 hours

Intro to Building Agents

1. Concept-first, no code yet
2. Why use agents
3. How agents work
4. Limitations

LangChain Primitives

1. Just enough to build on
2. Models, prompts, output parsers
3. LCEL basics

4. Why we're moving to LangGraph for agents

LangGraph Fundamentals

1. Graphs, state, nodes, edges
2. Compilation and execution
3. LangGraph Studio walkthrough
4. Demo: "Hello World" graph

Building Up: Chain → Router → Agent

1. Chain
 - a. Sequential node execution
2. Router
 - a. Conditional edges
 - b. LLM-based routing decisions
3. Agent + Tool Usage
 - a. Defining tools
 - b. Binding tools to models
 - c. ToolNode and the agent loop
 - d. Parallel tool calls and error handling

State & Memory

1. State schemas
2. State reducers
3. Multiple schemas
4. Filtering and summarizing messages

AI Transformation: Where Companies Are and How to Start

1.5 hours

1. What companies are doing today
2. The spectrum of ways to bring AI into a company
3. Where AI is heading
4. The new employee in the AI era
5. Risks, limits & governance
6. How to start an AI transformation

Module 2 – AI Project Pods: From Idea to Organizational Impact

Duration: 16 hours | Pods of 10–15 participants

Objective: Lead a real AI project inside the participant's own organization, from definition to a working MVP with measurable impact.

The Project:

- Built by the participants themselves, targeting a focused bottleneck in their organization
- Scoped as an MVP and developed alongside the program
- Measured against KPIs defined upfront, such as weekly hours saved, shorter cycle time, or developer adoption rate
- Designed to scale beyond the individual, to additional teams and workflows

Pod Sessions: Hands-on work sessions with mentoring, peer learning, and problem solving

Deliverables: An MVP implemented in the participant's organization, backed by clear success metrics

Module 3 – AI Leadership Workshops

Session 1 – Driving AI Adoption Without Formal Authority

Duration: 3 hours

Objective: Equip AI Champions with proven frameworks to influence decision-makers and drive AI adoption across engineering, product, and business teams without formal authority.

Core Topics:

- Stakeholder mapping and resistance patterns in technical and leadership environments
- Persuasion frameworks and business storytelling for AI-driven initiatives
- Addressing critical concerns: data security, code quality, productivity impact, and role evolution

Deliverables: A structured stakeholder influence map and a clear value proposition

Session 2 – Turning Resistance into Alignment: Negotiation for AI Champions**Duration:** 3 hours**Objective:** Neutralize resistance to AI adoption and negotiate stakeholder alignment on resources, timelines, and budgets.**Core Topics:**

- Diagnosing explicit and implicit resistance drivers – technical, organizational, political, and emotional
- Reframing conversations from positions to strategic interests
- Defining personal and organizational BATNA for non-agreement scenarios
- Advanced inquiry, empathetic listening, and strategic reframing
- Designing a compelling value narrative (What's In It For Them) and aligning on shared outcomes

Deliverables: Demonstrated ability to lead negotiations toward win-win agreements, backed by clear commitments, actions, and timelines**Session 3 – From Technical Impact to Executive Buy-In: Selling AI Value****Duration:** 3 hours**Objective:** Translate technical execution into measurable business impact that drives executive approval and budget allocation.**Core Topics:**

- Executive decision metrics: revenue impact, cost efficiency, risk mitigation, and delivery velocity
- Building a single ROI slide: baseline, efficiency gains, and upside potential
- C-level dashboards and the questions executives and boards ask about AI investments

Hands-on Practice: Lightning Talk simulation that turns technical output into a management-ready narrative, plus executive Q&A**Deliverables:** An ROI slide and a concise executive messaging framework

About Jumpin

Jumpin brings deep, proven expertise in advancing talent through soft-skills mastery that translates directly into real outcomes.

For over seven years, Jumpin has worked with job seekers, early-career professionals, and underrepresented talent to bridge the critical gap between technical capability and real-world employability. Our approach is rooted in developing high-impact soft skills: strategic communication, influence without authority, stakeholder management, self-positioning, and career storytelling that enable candidates to navigate complex hiring processes, perform confidently in interviews, and integrate successfully into organizations. This methodology consistently delivers measurable results, with strong placement rates and long-term retention, by transforming potential into performance and individuals into high-impact contributors.

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