

Product Engineer Program

12-Week Intensive + Demo Day

BUILD. SHIP. OWN.

12

2

24

WEEKS

PRODUCTS

SESSIONS

Program Overview What You're Signing Up For





Product Thinking

Understand problems, not just solutions



Full-Stack Building

Frontend, Backend, Database, Deployment



AI-Powered

Learn to use AI as a force multiplier



Real Feedback

1:1 mentorship on your work



Demo Day

Present your product to the industry

10-15

STUDENTS PER COHORT

2

SESSIONS/WEEK

100%

PLACEMENT ASSISTANCE

Your Journey to Product Engineer



Foundation

Weeks 1-4



Execution

Weeks 5-8



Mastery

Weeks 9-12



Demo Day

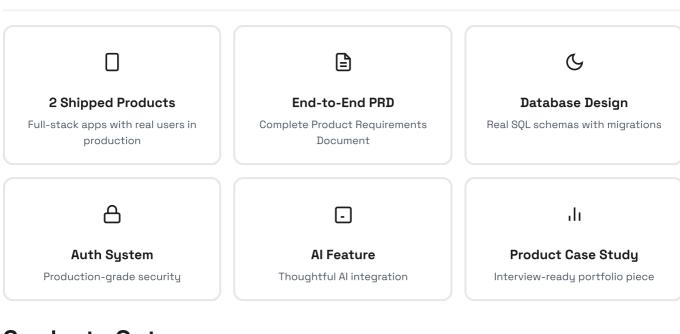
Week 14

The Sodiarc Difference

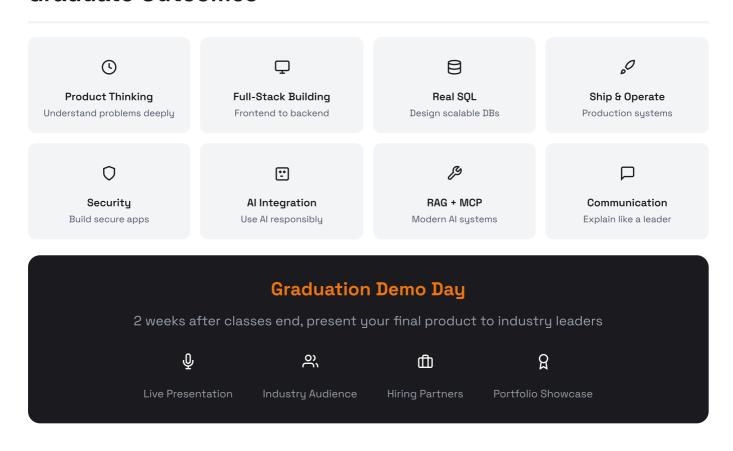
This is not course learning. Every week runs two synchronized sessions: Product Thinking + Engineering. You'll ship 2 real products end-to-end — from problem discovery to production deployment — and present at our Graduation Demo Day (2 weeks after classes end).

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What You'll Build Real Deliverables, Not Certificates



Graduate Outcomes What You'll Be Able To Do



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3

Weeks 1-4 Foundation Phase

Week 1 Ownership Mindset + Al-Assisted Engineering

PRODUCT THINKING

- > Product vs Feature vs Outcome
- > Clarity Pyramid: Who > Problem > Why
- > What companies actually hire for
- → One Page Clarity Note

ENGINEERING

- > Al as partner, not replacement
- > Repo structure & debugging mindset
- > First backend scaffold + deploy
 - → First Deployed Backend

Week 2 Understanding Users + Backend APIs

PRODUCT THINKING

- > Practical user understanding
- > Pain frequency, intensity, motivation
- > Avoiding fake validation
 - → User Problem Brief

ENGINEERING

- > HTTP fundamentals & REST design
- > Resource correctness
- > Robust error patterns
 - → Meaningful Backend APIs

Week 3 Problem Framing + SQL & Database Design

PRODUCT THINKING

- > Problem framing maturity
- > Business & user alignment
- > Assumptions to Hypotheses
- → Problem Framing Doc

ENGINEERING

- > Relational design & schema thinking
- > SELECT, JOIN, GROUP BY, indexing
- > Migrations discipline
- → Working DB + SQL Sheet

Week 4 PRD Lite + Frontend Foundations

PRODUCT THINKING

- > What a good PRD contains
- > Defining scope correctly
- > Success conditions preview
- → PRD Lite (2-3 pages)

ENGINEERING

- > Component thinking
- > State management sanity
- > Resilient UI & meaningful UX
- → Frontend + Backend Integration

Weeks 5-8 Execution Phase

Week 5 Prioritization + Auth & Security

PRODUCT THINKING

- > MVP vs MVT thinking
- > Ruthless cutting
- > Tradeoff discipline
 - → Cut 40% Scope Exercise

ENGINEERING

- > Authentication correctness
- > Authorization & JWT vs Session
- > Privacy mindset
 - → Secure Auth System

Week 6 Defining Success + Deployment

PRODUCT THINKING

- > Metrics & outcomes
- > Guardrails
- > What failure looks like
- → Primary + Guardrail Metrics

ENGINEERING

- > Cl mindset & environments
- > Logging & monitoring basics
- > Debugging in production
 - → Live Stable Product

Week 7 Hard Decisions + Engineering Tradeoffs

PRODUCT THINKING

- > Constraints simulation
- > Decision under uncertainty
- > Real-world pressure handling
- → Decision Log (Start)

ENGINEERING

- > Performance vs simplicity
- > Shipping under constraint
- > Resilience training
- → Break > Recover > Ship Drill

Week 8 UX Reality + Testing & Reliability

PRODUCT THINKING

- > UX debt vs business value
- > Choosing right improvements
- > Quality-speed balance
- → UX Risk Fix Plan

ENGINEERING

- > Why testing matters
- > Al tests vs thoughtful tests
- > Integration testing focus
 - → Core Workflow Tested

Week 9 Systems Thinking + Performance

PRODUCT THINKING

- > "What breaks at 10x users?"
- > Second-order effects
- > Stability mindset
 - → Product System Map

ENGINEERING

- > Caching mindset
- > DB performance thinking
- > Rate limiting & pagination
 - → Performance Improvement

Week 10 Communication + System Design

PRODUCT THINKING

- > Explaining decisions clearly
- > Interview storytelling structure
- > Stakeholder communication
 - → Product Narrative

ENGINEERING

- > Architecture diagrams
- > Boundaries & failure points
- > Future scaling considerations
 - → Architecture Doc

Week 11 Al Product Thinking + Applied Al Engineering

PRODUCT THINKING

- > When Al belongs (and when not)
- > Trust, hallucination, reliability
- > UX patterns for AI features
- → Al Inclusion Justification

ENGINEERING

- > Al feature integration
- > Fallback logic
- > Cost vs latency vs usefulness
- → Thoughtful Al Feature

Week 12 Final Case + Modern GenAl Systems

PRODUCT THINKING

- > Ownership maturity
- > What you learned about judgment
- > Complete product story
- → Final Product Case Study

ENGINEERING

- > RAG systems & Vector DB
- > Chunking + grounding
- > MCP Servers + Controlled Al
- → Demo Day Prep

Tools You'll Master Industry-Standard Tech Stack



React / Next.js

Modern Frontend



Node.js

Backend APIs



PostgreSQL

Database Design



TypeScript

Type Safety



Claude / GPT

Al Integration



Git / GitHub

Version Control



Vercel / AWS

Deployment



Figma

Design Basics



Python

Backend Scripting



Django

Web Framework



LangChain

Al Frameworks



Redis

Caching & Queues

Al Engineering Stack Modern Al Development



RAG Systems

Retrieval Augmented Generation



Vector DBs

Embeddings & Search



MCP Servers

Controlled Al Access



Al Agents

Autonomous Systems

7

Free Claude Pro Access

All students receive free Claude Pro subscription throughout the program. No additional Al tool costs required — we provide everything you need to learn Al-powered development.

Week 14: Graduation Demo Day

2 weeks after classes end, you'll present your final product to an audience of industry professionals and hiring partners. This is your portfolio moment — show what you've built and how you think.

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Ready to Become a Product Engineer?

Join a cohort of ambitious builders learning to think, build, and ship like the best in the industry. Small cohorts. Real products. Demo Day presentation.

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Email: admin@sodiarc.ai

12

2

1

100%

Weeks

Products

Demo Day

Placement Assistance