Sodiarc.ai

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

Learn by Building

Ship 2 real products end-to-end with actual users

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	2	100%
STUDENTS PER COHORT	SESSIONS/WEEK	PLACEMENT ASSISTANCE

Your Journey to Product Engineer

1	2	3	4
Foundation	**Execution**	**Mastery**	**Demo Day**
Weeks 1-4	Weeks 5-8	Weeks 9-12	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).

What You'll Build

Real Deliverables, Not Certificates

2 Shipped Products

Full-stack apps with real users in production

End-to-End PRD

Complete Product Requirements Document

Database Design

Real SQL schemas with migrations

Auth System

Production-grade security

AI Feature

Thoughtful AI integration

Product Case Study

Interview-ready portfolio piece

Graduate Outcomes

What You'll Be Able To Do

Product Thinking

Understand problems deeply

Full-Stack Building

Frontend to backend

Real SQL

Design scalable DBs

Ship & Operate

Production systems

Security

Build secure apps

AI Integration

Use AI responsibly

RAG + MCP

Modern AI systems

Communication

Explain like a leader

Graduation Demo Day

2 weeks after classes end, present your final product to industry leaders

Live Presentation

Industry Audience

Hiring Partners

Portfolio Showcase

Weeks 1-4 Foundation Phase

Week 1 Ownership Mindset + AI-Assisted Engineering

PRODUCT THINKING

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

→ One Page Clarity Note

ENGINEERING

- AI 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

> CI 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
> AI tests vs thoughtful tests
> Integration testing focus

→ Core Workflow Tested

Weeks 9-12 Mastery Phase

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 AI Product Thinking + Applied AI Engineering

PRODUCT THINKING

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

→ AI Inclusion Justification

ENGINEERING

- > AI feature integration
- > Fallback logic
- > Cost vs latency vs usefulness

→ Thoughtful AI Feature

Week 12 Final Case + Modern GenAI 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 AI

→ 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
AI Integration

Git / GitHub
Version Control

Vercel / AWS
Deployment

Figma
Design Basics

Python
Backend Scripting

Django
Web Framework

LangChain
AI Frameworks

Redis
Caching & Queues

AI Engineering Stack

Modern AI Development

RAG Systems
Retrieval Augmented Generation

Vector DBs
Embeddings & Search

MCP Servers
Controlled AI Access

AI Agents
Autonomous Systems

Free Claude Pro Access

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

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.

Apply Now at sodiarc.ai

Visit sodiarc.ai

Email: admin@sodiarc.ai

12	2	1	100%
Weeks	Products	Demo Day	Placement Assistance