

PRODUCT + UI/UX

Profile 02

CramAI 03-06

Frame by Frame 07

AI-Powered Audience 08-09
Insights

MAKING

University Road Wayfinding 10

YIPENG ZHANG

2026

PRODUCT ENGINEER

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Product Engineer · currently building CramAI

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Product definition

UI/UX

Frontend

AI integration

Next.js

React

Multi-agent productization

I started in UI/UX and frontend, and now also own product definition and engineering delivery. I am currently building CramAI, turning multi-agent AI into a loop people can study, test, and track.



FLAGSHIP · DEC 2025–PRESENT

CramAI

Multi-agent AI learning assistant

PROBLEM

Study materials stay scattered across PDFs, videos, and links, while practice and tracking live somewhere else. CramAI turns that pile into a conversational, testable, trackable learning loop.

ROLE

Product Lead / Product Engineer. I own product direction, priorities, feedback review, product design, UI/UX, frontend, selected backend work, and commercialization analytics.

AI-agent algorithms, variant generation, multimodal RAG, and AWS infrastructure were owned by other teammates.

1,264

ACTIVE USERS IN 90 DAYS

22,514

PRODUCT EVENTS

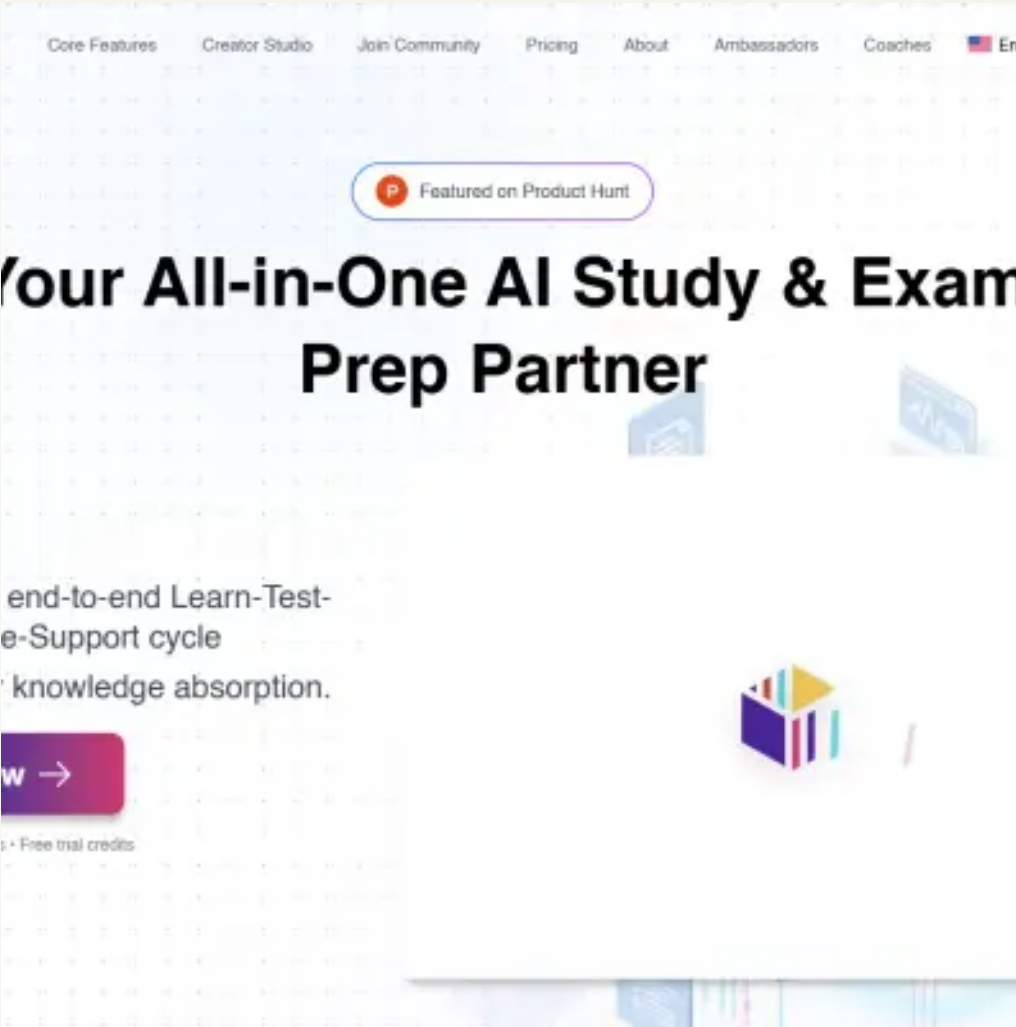
GA4 aggregate usage signal, Jun 7–Sep 4 2026. Not a growth, retention, or conversion-lift claim.

PRODUCT LOOP

01

Bring materials

PDF · VIDEO · LINK



PUBLIC EXPERIENCE ENTRY — GUEST TRIAL BEFORE AUTHENTICATION.

02

Learn with Tutor

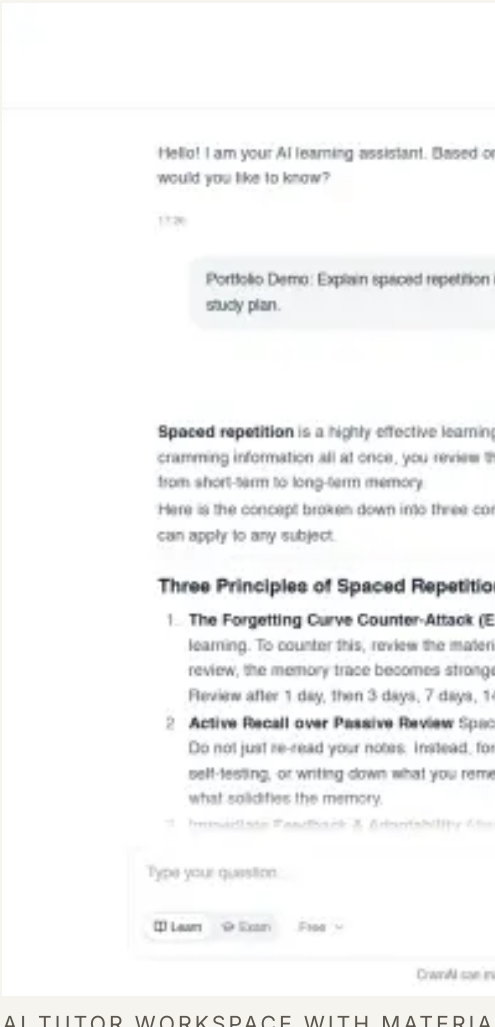
READ · ASK · CREATE



03

Practice & test

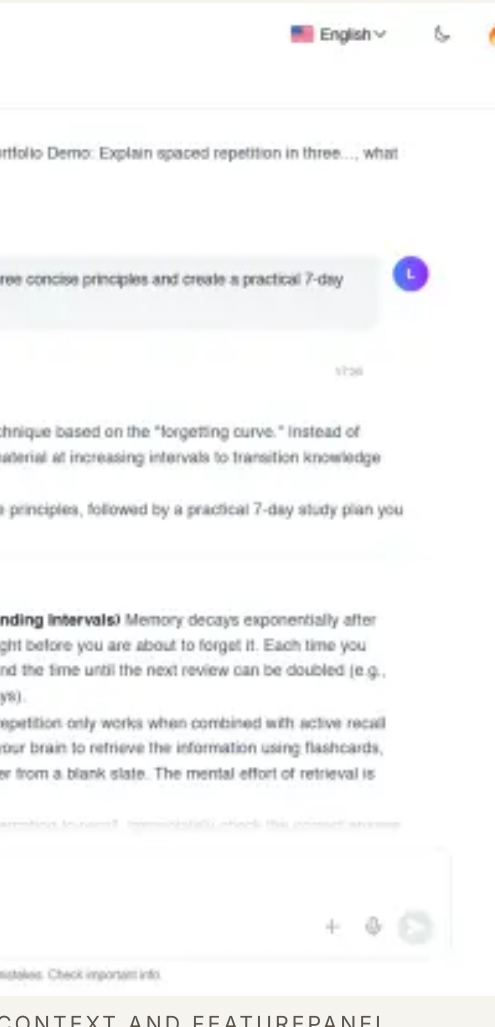
QUIZ · MOCK EXAM · COACH



04

Track & improve

REPORT · NEXT PLAN



AI TUTOR WORKSPACE WITH MATERIAL CONTEXT AND FEATUREPANEL OUTPUTS.

EXAM & ITEM BANK

Four tables split papers from questions: raw imports can be replayed, papers own arrangement, and questions keep identity and revision hashes. Import is read-only until audit and preview pass; answer keys are never invented. CFA Level I at about 16 papers / 2,600+ questions is QA scale. Mock exams sit on this bank.

01

Raw import

Dual file hashes so a later normalizer can replay.

02

Paper

Session, order, year, and paper kind only.

03

Paper item

Item-sets, source passages, and points stay here.

04

Question

Identity and revision hashes; reusable across papers.

The screenshot displays the 'AI Mock Exam' interface. At the top, it shows 'Answered 0 / 120', a language dropdown set to 'English', and a timer at '01:58:51'. There are buttons for 'Submit >' and 'Pause & Exit'. On the left is a 'QUESTION NAVIGATION' grid with 36 numbered buttons (1-36), where button '1' is highlighted. The main area shows 'Q 1 / 120' with 'Single Choice' and 'Medium' tags. The question text is: 'In cases where applicable local laws governing calculation and presentation of investment performance conflict with the GIPS standards, firms are: (Score: 1)'. Two answer options are visible: 'A unable to claim GIPS compliance in cases where local regulations prohibit accurate calculation.' and 'B required to calculate and maintain two sets of performance data in order to claim GIPS compliance.'

STAGED COACHING

Real bank items stay as server-side anchors; learners never see the original stem. Coaching is a standalone mode: full explanation, half hint, then zero-hint verification. A miss retries a same-knowledge variant. Objective anchors cover single, multiple, true/false, and fill-blank. Variant generation and difficulty judging are owned by teammates.

01

Ingest items

Gated questions, retrievable by exam scope.

02

Server anchor

Original stems never round-trip to the UI.

03

Variant gen

Same type and knowledge point, then quality checks.

04

Staged coach

Explain, half-hint, zero-hint; miss retries a variant.

English

Choose question type: **Multiple choice** (selected), **Reduced scaffold**, **Independent check**

Preview: 1/1

WORKED SOLUTION · 1/1

Try! passed first, scored 100% (correct answer, method worked)

An institutional investor commits \$50 million to a newly formed private equity fund during its investment period. Which of the following best describes the standard basis used to calculate the fund's annual management fee during this initial period?

Hint 1

During investment period, invested amount is used to calculate management fee.

Identify what determines the management fee base for a private equity fund specifically during its initial investment period.

Hint 2

Recall how fee structures differ between private equity funds and hedge funds, as well as how private equity management fees evolve across the fund's life cycle.

Hint 3

In the investment period, private equity managers charge fees on the total commitment made by investors (setup and opening costs), rather than on the fluctuating fair value of invested assets.

Correct

The total committed capital of \$50 million.

WORKED SOLUTION · GRADED HINTS ON DEMAND

English

Choose question type: **Multiple choice** (selected), **Reduced scaffold**, **Independent check**

Preview: 1/1

REDUCED SCAFFOLD · 1/1

Try! independently first, graded hints next method

An analyst is evaluating the fee structure of a newly launched private equity fund during its investment period. Management fees for this type of fund are typically calculated as a percentage of:

Hint

☒ committed capital.

☐ invested capital only.

☐ net asset value of the portfolio.

Correct

Worked explanation

In a private equity fund setup, management fees during the initial investment period are generally calculated based on total committed capital (the total amount pledged by limited partners), rather than

REDUCED SCAFFOLD · HINTS STOP AT METHOD

English

Choose another topic: **Investment** (selected), **Reduced scaffold**, **Independent check**

Preview: 1/1

INDEPENDENT CHECK · 1/1

Hint: Missed 1st hint (correct answer, the reduced scaffold failed)

An analyst is evaluating the fee structures of two different alternative investment vehicles: Statement 1: A hedge fund typically calculates its annual management fee based on total committed capital throughout the investment period. Statement 2: A private equity fund typically calculates its management fee during the investment period on total committed capital, and later during the post-investment period on committed capital less capital returned from realized investments. Which of the statements evaluated by the analyst is/are correct?

☐ (A) Statement 1 only

☐ (B) Statement 2 only

☒ (C) Both Statement 1 and Statement 2

Result: 100% (1/1) · Investment section on again

Correct answer

INDEPENDENT CHECK · NO HINTS

UI / WEB · APR 2025

Frame by Frame

A mosaic site that lets people switch art styles on their own photos

PROBLEM

Art styles stay vocabulary until people can try them. This site turns an uploaded photo into Pop Art, Impressionist, or Cubist mosaics, with artwork metadata and live comments on the same interface.

ROLE

Team project. I owned the UI prototype, frontend integration, and mosaic.js refactor so style switching, carousel, and comments share one interface.

01

Miro

Collapsed interaction goals and style choice into one visitor path.

02

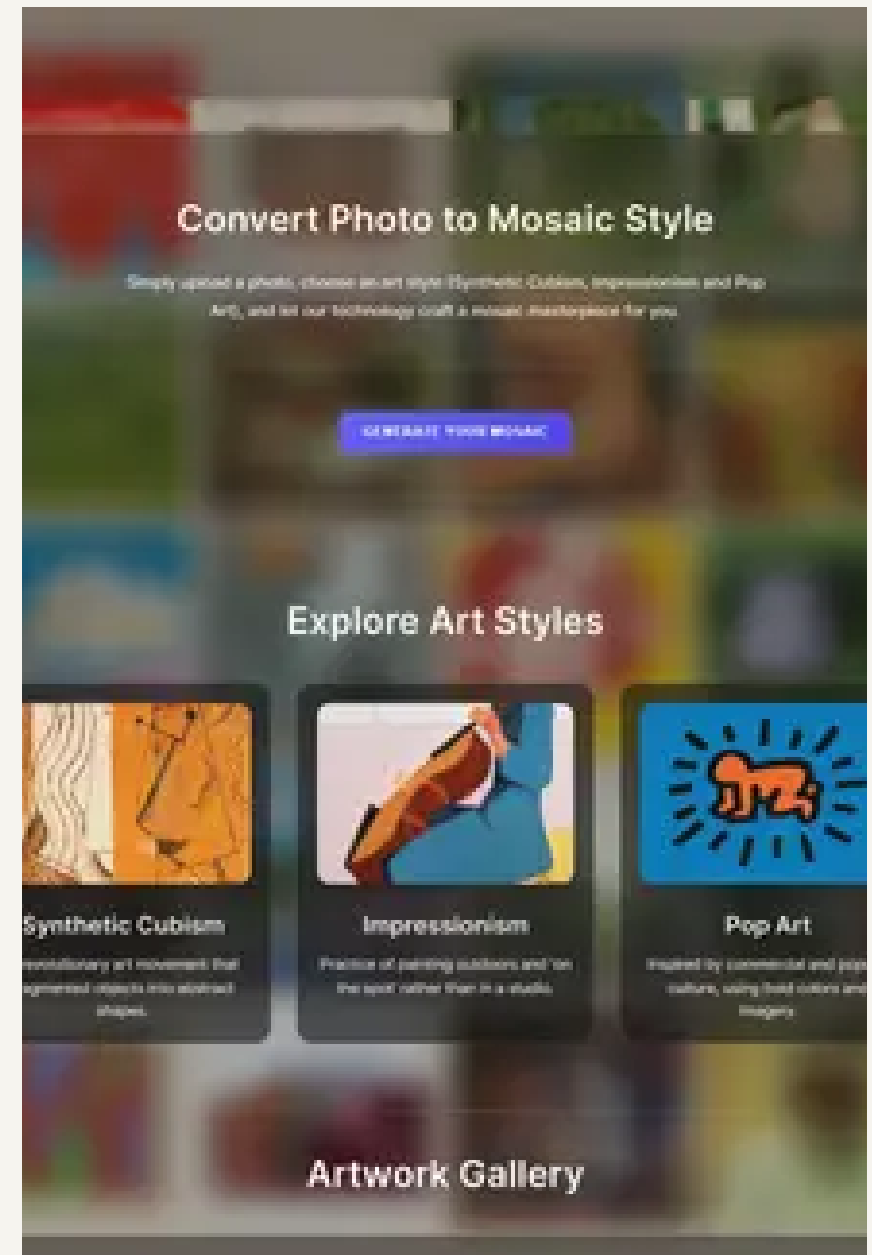
Figma prototype

Turned upload, style switching, artwork info, and comments into a clickable UI.

03

Frontend integration

Refactored mosaic.js so heavy tile loads still allow style switching and comments.



LIVE UI: UPLOAD A PHOTO, SWITCH ART STYLES, READ ARTWORK INFO AND COMMENTS.

ACADEMIC SYSTEM · AUG 2025

AI-Powered Audience Insights

From YouTube comments to content strategy

This project builds an AI tool that helps content creators by analysing audience feedback, filtering toxic comments, and generating useful ideas from user comments. Sentiment analysis and keyword grouping turn real opinions into strategies you can act on.

The system supports trend analysis across multiple videos and ongoing AI conversations. It uses RAKE, KeyBERT, and a locally deployed Llama 3 model rather than platform vanity metrics alone.



SYSTEM OVERVIEW — COMMENT ANALYSIS TO STRATEGY SUGGESTION.

SYSTEM AND FINAL WEBSITE



DASHBOARD — CHANNEL PERFORMANCE AND KEY METRICS.



TREND EXPLORER — EMERGING TOPICS ACROSS VIDEOS.



VIDEO ANALYSIS — SENTIMENT, KEYWORDS, AND COMMENT BREAKDOWN.

SHIPPED SPATIAL WORK · JAN 2024

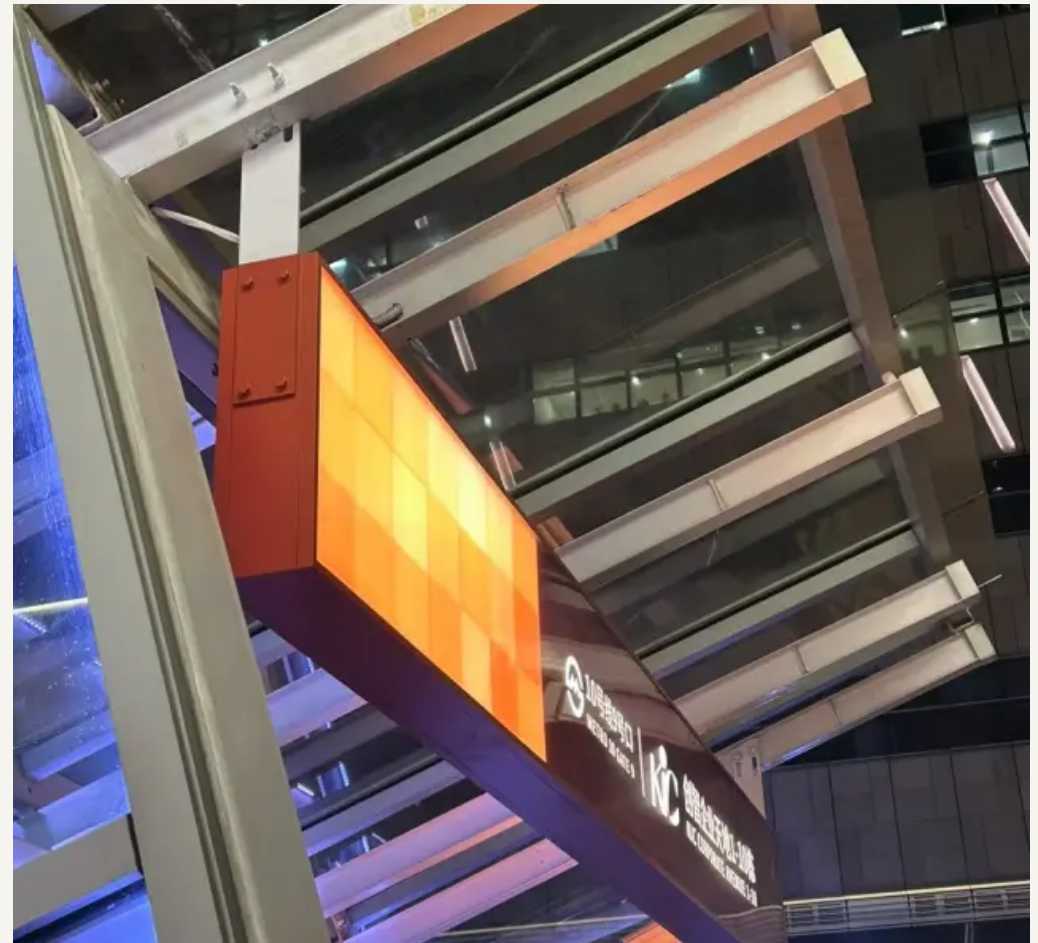
University Road Wayfinding

Yangpu District, Shanghai

A wayfinding system for University Road around the Knowledge & Innovation Community. High-contrast color, modular structures, and night illumination — short proof of work that left the screen and was installed on the street.



FREESTANDING DIRECTIONAL SIGNS.



OVERHEAD GANTRY, NIGHT VIEW.