

YOUR NEXT CHAPTER

System Design & AI-assisted Engineering

Design, implement and test a system under realistic constraints, while learning to review AI-generated code and architectural proposals.

10 WEEKS

Live + recorded + projects

80 TOTAL HOURS

8 hours / week

₹24,900

Tuition before taxes

PLANNED FIRST / FINAL SESSION

2026-11-04 / 2027-01-08

WEEKLY LIVE SCHEDULE

Wednesday & Friday · 19:00-20:30 IST

APPLY BY

2026-11-02

LEARNING-HOUR BREAKDOWN

30 live + 10 recorded + 40 independent practice

Who this is for

- + Engineers preparing for senior responsibilities
- + Developers preparing for system-design interviews
- + Technical leads reviewing architecture and AI-assisted changes

Before you join

- + Experience building and deploying a web application
- + Familiarity with APIs, databases and testing
- + Working knowledge of one backend language

Apply free. Your application records interest; it does not confirm admission or reserve a paid seat. All seven tracks run independently. Holiday adjustments will be shared before admission.

WHAT YOU WILL LEARN

A curriculum built for practice.

WEEK 1-2

Requirements and design reasoning

- + Functional requirements and quality goals
- + Capacity and latency estimates
- + API boundaries and data models
- + Trade-off explanations and design reviews

WEEK 3-4

Data and distributed workflows

- + Transactions and consistency
- + Idempotency and duplicate events
- + Queues, retries and reconciliation
- + Choosing relational and non-relational storage

WEEK 5-6

Scale, reliability and security

- + Caching and invalidation
- + Rate limits and load management
- + Availability and failure recovery
- + Authentication, authorisation and data boundaries

WHAT YOU WILL LEARN

A curriculum built for practice.

WEEK 7-8

AI-assisted implementation and review

- + Prompting with concrete constraints
- + Reviewing generated code and test coverage
- + Detecting unsafe assumptions and edge cases
- + Load tests, traces and bottleneck analysis

WEEK 9-10

Capstone and architecture defence

- + Implement a critical system workflow
- + Failure drill and performance report
- + Document decisions and alternatives
- + Mock architecture review and revisions

Tools and methods

Architecture diagrams / PostgreSQL / Redis / Docker / k6 / OpenTelemetry / AI coding tools

BUILD AND APPLY

Your learning, put to work.

Capstone directions

Reliable seat-booking system

Design and implement reservation expiry, concurrency protection and idempotent confirmation using sandbox payments.

Notification delivery platform

Build queued delivery with retries, deduplication, status tracking and load-test evidence.

AI feature architecture review

Review a proposed AI service, implement a critical path and justify evaluation, cost and fallback choices.

Instructor expertise we are recruiting

Senior or staff engineer who has owned production systems. Evidence of architecture decisions, incident learning and mentoring. Experience assessing AI-generated code and explaining trade-offs in mock reviews. Faculty being finalised.

Tuition and application

Launch tuition: ₹24,900 per learner, before applicable taxes. Includes planned live sessions, recordings, resources, assignments and project reviews. Paid tools and external certification exams are extra unless included in your admission offer.

Named faculty, final timetable, final payable amount and written cancellation/refund terms will be confirmed before admission and payment. Six months of post-course resource access is planned. No university affiliation, placement or salary guarantee is offered.

Apply for your November cohort

Visit the ShawGrid Academy website, open this programme and select Apply for this track. Keep the on-screen application reference and downloadable receipt. Email acknowledgements will be enabled after sender verification.