

— WELCOME · COURSE INTRO

FHIR R4 & HAPI — from resources to production.

From your very first Patient document to a multi-tenant healthcare platform running in production. If you are a developer comfortable with REST and JSON, and you want to build something real in healthcare, this course is for you. You bring the engineering — we bring FHIR.

Who this is for

● Developers fluent in REST + JSON

● No clinician or hospital background needed

— THE PAYOFF · WHAT YOU'LL BUILD

Four things you ship — mapped onto five acts.

● HAPI SERVER

Multi-tenant FHIR in Java

A production HAPI FHIR server — the spine every other piece talks to.

● NESTJS BFF

FHIR shaped for the UI

A backend-for-frontend that adapts raw FHIR for your front end.

● NEXT.JS UI

Real clinical data

A front end rendering live Patients, Conditions, and Observations.

● MCP SERVER

FHIR for LLM agents

A Model Context Protocol server exposing FHIR to AI agents.

The five-act spine

● I · Spec — resources · datatypes · terminology · bundles

● II · HAPI — config · profiling · search · interceptors · subscriptions

● III · App layer — BFF · Next.js · SSE · seeders

● IV · Security + agents — SMART · RBAC · MCP · telemedicine

● V · The honest pitfalls — scars from real production

— HOW TO FOLLOW ALONG

About 150 minutes — hands-on, in two voices.

~150m

TOTAL RUNTIME

Watch straight through for the full arc, or jump to the chapters that matter to your role.

hapi.fhir.org

FREE PUBLIC SANDBOX

Everything is hands-on against a free, public HAPI server. No install needed for the first taste.

Try it

EVERY CHAPTER ENDS WITH A RECAP

One concrete command you run against the sandbox. Pause, try it, come back.



Ava · host

And every chapter is hands-on against the public HAPI sandbox.



Marcus · expert

Each chapter closes with one command to run yourself. Pause, try it, return.