■ Backend Development 20-Week Schedule (Node.js + Express + MongoDB)

Week 1

Day 1: Backend vs Frontend, Client-Server model
Day 2: Internet basics (DNS, IP, TCP/IP)
Day 3: HTTP vs HTTPS, Request/Response cycle
Day 4: Status codes (200, 301, 404, 500)
Day 5: REST APIs overview
Day 6: Practice: Use Postman with JSONPlaceholder API
Day 7: Rest

Week 2

Day 1: Variables, datatypes, operators
Day 2: Functions & arrow functions
Day 3: Arrays & objects, destructuring
Day 4: Spread/rest operator, template literals
Day 5: Modules (CommonJS vs ES Modules)
Day 6: Practice: Student Grade Calculator
Day 7: Rest

Week 3

Day 1: Event loop & concurrency
Day 2: Callbacks & callback hell
Day 3: Promises (.then/.catch)
Day 4: async/await with try/catch
Day 5: Promise.all, timers (setTimeout, setInterval)
Day 6: Practice: Fake API Fetcher
Day 7: Rest

Week 4

Day 1: What is Node.js (V8, libuv)
Day 2: Running scripts, using process, REPL
Day 3: Core modules: fs, path
Day 4: Core modules: http (basic server)
Day 5: NPM basics, using nodemon
Day 6: Practice: Basic HTTP Server
Day 7: Rest

Week 5

See detailed schedule in full course plan (20-week breakdown).

Week 6

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Week 7

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Week 8

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Week 9

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Week 18

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Week 19

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Week 20

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