

CareerGrad

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MERN STACK DEVELOPER PROGRAM

MongoDB • Express.js • React.js • Node.js

6

Months

24

Weeks

24

Projects

150+

Hours

HTML5	CSS3	JavaScript	React.js
Node.js	Express.js	MongoDB	Git & GitHub
REST APIs	JWT Auth	Docker	Deployment

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MONTH 1 WEB FOUNDATIONS — *HTML & CSS*

WK	TOPIC	SUBTOPICS COVERED	PROJECT
W1	HTML Fundamentals	Document structure, head/body, meta tags, headings, paragraphs, links, images	Portfolio Basic
W2	HTML Advanced	Forms, input types, validation, semantic tags, accessibility	Resume Form Page
W3	CSS Core	Selectors, colors, fonts, box model, display types	Styled Page
W4	CSS Layout	Flexbox (axis, align), Grid (rows, columns), responsive design	Landing Page

MONTH 2 JAVASCRIPT CORE — *Programming Fundamentals*

WK	TOPIC	SUBTOPICS COVERED	PROJECT
W1	JavaScript Basics	Variables, data types, operators, type coercion	Basic Problems
W2	Control Flow	if/else, switch, loops (for, while), logical operators	Mini Apps
W3	Functions	Declaration, expression, arrow, parameters, return, scope	Calculator
W4	Arrays & Objects	Array methods, object properties, iteration	Todo Logic

MONTH 3 JAVASCRIPT ADVANCED — *DOM & Async*

WK	TOPIC	SUBTOPICS COVERED	PROJECT
W1	DOM Basics	DOM tree, querySelector, text/content manipulation	DOM Tasks
W2	Events	Click, input, keyboard events, event bubbling	Interactive UI
W3	Advanced JavaScript	Hoisting, scope chain, closures, this keyword	Debug Apps
W4	Async JavaScript	Promises, async/await, fetch API, error handling	API Project

MONTH 4 REACT.JS — *Frontend Framework*

WK	TOPIC	SUBTOPICS COVERED	PROJECT
W1	React Basics	JSX, components, props, state basics	Simple UI
W2	React Hooks	useState, useEffect, controlled forms	Form App
W3	React Advanced	Context API, routing, performance optimization	Dashboard
W4	React Projects	API integration, reusable components	Blog App

MONTH 5 BACKEND DEVELOPMENT — *Node, Express & MongoDB*

WK	TOPIC	SUBTOPICS COVERED	PROJECT
W1	Node.js	Node architecture, modules, fs, npm	CLI App
W2	Express	Routing, middleware, REST API structure	API Backend
W3	MongoDB	CRUD operations, schema design, mongoose	DB Project
W4	Authentication	JWT, login/signup, authorization, security	Auth System

MONTH 6 FULL STACK & DEPLOYMENT — *Production Ready*

WK	TOPIC	SUBTOPICS COVERED	PROJECT
W1	Full Stack Integration	Connect frontend + backend, API calls	Full App
W2	Advanced Backend	MVC architecture, error handling, validation	Production Backend
W3	Deployment	Docker basics, hosting, CI/CD basics	Deploy App
W4	Final Projects	E-commerce, SaaS app, portfolio	Final Project