



Adyapan School

Web Development (Full Stack)



Duration - 2 months

Industry
Certification



Skill India Certified

250+
Partner Companies

Architect the Digital Future

Architect seamless, high-speed user experiences; don't just write scripts.

Master the art of building and scaling modern, reactive web ecosystems in this 8-week, performance-driven intensive. Moving beyond basic syntax, you will harness the full power of JavaScript, from mastering the intricacies of asynchronous patterns to architecting component-based UIs with React and robust, event-driven backends with Node.js.

By engineering real-world solutions like real-time collaboration tools and scalable microservices, you will learn to bridge the gap between fluid frontend interfaces and high-concurrency server logic. You'll graduate with a professional-grade portfolio of full-stack MERN applications, optimized for speed, secured with modern auth protocols, and ready to dominate the current digital landscape.

8

MODULES

30+

PROGRAM OFFERINGS

20,000+

STUDENTS

250+ PARTNERED COMPANIES



ABOUT ADYAPAN SCHOOLS

Where education meets real-world impact

Not just a course — a platform to launch
your career.

Adyapan Schools was built with a single conviction:
learning works best when it happens in the real world.
We partner with top companies, mentors, and industry
platforms to ensure every student graduates with a
portfolio of work that speaks louder than a certificate.

Our programs combine rigorous coursework with live
client projects, giving you the skills and proof-of-work
that employers actually want.

MISSION

To equip ambitious learners with
practitioner-level digital
marketing skills through mentor-
led, project-based education that
bridges the gap between learning
and earning.



VISION

To be India's most trusted
launchpad for the next generation
of marketing leaders — defined
not by degrees but by the real
work.



Everything you need to grow fast

PROGRAM HIGHLIGHTS

Live Industry Projects

Work on campaigns for real brands alongside your coursework. Build portfolio projects that prove your expertise to employers.

1-on-1 Mentorship

Dedicated mentors from Google, Microsoft, Mastercard and more. Get personalized guidance and industry connections.



AI-Powered Marketing

Learn cutting-edge AI tools alongside evergreen fundamentals. Stay ahead of the curve in a rapidly evolving landscape.



Dual Certification

Earn both a Course Completion and Internship Certificate – accredited by Skill India Digital Hub and NSDC.



Internship Guarantee

Graduate with an internship completion certificate from a live brand project. Concrete, resume-ready proof of work.



Industry Network

Join a network of alumni at Amazon, Google, Adobe, Microsoft. Access exclusive hiring events and referral opportunities.

8 weeks. 8 modules. Infinite impact.

WEEK 1

Web Foundations & HTML

- Discussion of Curriculum
- DNS, HTTP/HTTPS, clients & servers
- VS Code, browser dev tools, terminal, DOCTYPE, head, body, semantic tags
- Headings, paragraphs, links, images, lists & tables. All input types, labels, and validation attributes
- Accessibility fundamentals: alt text, ARIA roles, tab order
- Intro to the DOM: what browsers actually render from HTML



WEEK 2

CSS Mastery & Responsive Design

- CSS syntax, selectors, cascade, and inheritance
- Box Model: margin, padding, border, content — box-sizing
- Flexbox: containers, items, alignment, wrapping — all properties
- CSS Grid: defining rows/columns, template areas, auto-placement
- CSS variables, Google Fonts, icons (Font Awesome)
- Responsive Designs: mobile-first strategy & media queries
- Transitions, hover effects & basic keyframe animations



WEEK 3

Java Script Core Programming

- Variables: var, let, const — scope, hoisting & temporal dead zone
- All data types, typeof, type coercion, strict equality (===)
- Operators, conditionals (if/else, ternary, switch) & guard clauses
- Loops: for, while, for_of, for_in — break, continue & labels
- Functions: declarations, expressions, arrow functions, closures
- Arrays & Objects — creation, all key methods, destructuring



8 weeks. 8 modules. Infinite impact.

WEEK 4

DOM, Async JS & Git/GitHub

- DOM selection & traversal: `querySelector`, `getElementById`, etc.
- DOM manipulation: `createElement`, `appendChild`, `innerHTML`
- Event handling: `addEventListener`, delegation, bubbling & capture
- Async JS: callbacks → Promises → async/await patterns
- Git & GitHub: init, add, commit, push, pull, branching, GitHub Pages
- Working with REST APIs: headers, status codes, real public APIs



WEEK 5

React.js – Component-Based UI

- Why React? Virtual DOM, reconciliation & the component tree
- Project setup with Vite, folder structure best practices
- Props, state with `useState`, side effects with `useEffect`
- Custom hooks, Context API + `useReducer` for shared state
- React Router v6
- Performance



WEEK 6

Node.js, Express & REST APIs

- Event loop, non-blocking I/O, modules (CommonJS & ESM)
- Express.js: routing, middleware chain, req/res lifecycle
- `Package.json`, scripts, semantic versioning
- RESTful API design: HTTP verbs, resource naming, status codes
- Middleware: cors,morgan, body-parser, custom error handling
- Input validation with Joi / express-validator, dotenv configuration



8 weeks. 8 modules. Infinite impact.

WEEK 7

Databases, Auth & Full Stack MERN

- SQL vs NoSQL: MongoDB Atlas — collections, documents, queries
- Mongoose ODM: schemas, virtuals, middleware (pre/post hooks)
- User authentication: JWT tokens, bcrypt password hashing
- Auth flow: register, login, protected routes, refresh tokens
- Connecting React frontend to Express/MongoDB (full MERN stack)
- File uploads with Multer, image storage via Cloudinary



WEEK 8

Testing, DevOps & Capstone Launch

- Jest + React Testing Library — write full test suites
- Lazy loading, code splitting, memoisation, Lighthouse
- Dockerfile, docker-compose for full stack dev
- CI/CD with GitHub Actions — auto-deploy on push to main
- Domain setup, HTTPS, env secrets & production security checklist
- API testing with Supertest, mocking dependencies



WHO THIS IS FOR

This course is perfect for

Engineering Students

Backend Specialist

System Engineers

Tech Enthusiasts

Android Developer

Career Switchers

CERTIFICATIONS



ALUMNI NETWORK

Our alumni work at world-class companies

Amazon

Adobe

Google

Autodesk

Microsoft

Dalme

Your career switch is one click away.

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