Full Stack with React & Angular

Build and deploy full-stack JavaScript apps with React or Angular, Node.js, Express and MongoDB.

DURATION	FORMAT	LEVEL	LABS
45 hours	Onsite, online or hybrid	Intermediate	Cloud sandbox included

About this programme

A project-based programme for developers building complete web applications: modern HTML, CSS and JavaScript, component-based front ends in React or Angular, REST APIs with Node.js and Express, MongoDB, and testing, Git and cloud deployment.

Who it is for: Front-end, back-end and junior developers moving to full-stack work

What your team will be able to do

- Build responsive layouts with HTML, CSS, Sass and Bootstrap
- Write modern asynchronous JavaScript with promises and async/await
- Build component-based front ends in React or Angular and manage state
- Create secure REST APIs with Node.js, Express, MongoDB and JWT
- Test, version and deploy full-stack applications to the cloud

Before you start

- HTML, CSS and basic JavaScript
- Git basics

Course outline

1. Web foundations

- HTML structure and CSS styling
- Responsive design, CSS preprocessors (Sass/LESS) and animations
- Bootstrap and jQuery essentials

2. JavaScript in depth

- Core JavaScript and DOM manipulation
- Closures and scope
- Asynchronous programming with promises and async/await

3. Front-end frameworks

- Component-based architecture in React or Angular
- State management, including Redux for React
- Routing and data binding
- Integrating with RESTful APIs

4. Back-end development

- Node.js modules, packages and web servers
- Express: routing, middleware and HTTP handling
- MongoDB: CRUD, querying and data modelling
- RESTful APIs with JWT authentication

5. Testing, deployment and capstone

- Git and GitHub for version control
- Unit testing frameworks
- Deploying to Heroku, AWS or Netlify
- CI/CD and Docker fundamentals
- Capstone: an e-commerce or social application built end to end

Sample schedule

6 days onsite, or 12 half-day sessions online. We fit days and session lengths to your team's calendar.

Day 1	8 h	Web foundations; JavaScript in depth
Day 2	8 h	JavaScript in depth (continued); Front-end frameworks
Day 3	8 h	Front-end frameworks (continued)
Day 4	8 h	Back-end development
Day 5	8 h	Back-end development (continued); Testing, deployment and capstone
Day 6	5 h	Testing, deployment and capstone (continued)

Assessment and certification

How learning is checked

- A short knowledge check on day one and again at the end, so you can see each person's progress
- Graded hands-on labs in every module, reviewed by the trainer
- A final exercise that applies the programme to a problem like your team's own

Certificate and exams

- Participants who complete the programme receive a Cognitive Networks AI certificate of completion.

Formats and cohort size

- Onsite: At your office or a venue you choose, in full days.
- Online, live: Instructor-led over video, usually in half-day sessions so people can keep up with work.
- Hybrid: Some days in a room together, the rest online. Useful when a team works across cities.

Cohort size: 15 to 25 people per trainer. Larger teams run as parallel cohorts on the same outline, so everyone learns the same thing.

Pricing: We quote per cohort, based on duration, format and number of cohorts. There is no per-seat price list: tell us your team and we send a proposal within one business day.

Bring this programme to your team

Request a proposal at cognitivenetworks.ai/contact?programme=full-stack-react-angular

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