

# INFOSOFT IT SOLUTIONS

**Training | Projects | Placements**

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## **FRONT -END WEB DEVELOPMENT**

### **Introduction to Web Development**

- Overview of web development
- Client-side vs. server-side
- Understanding browsers and the DOM

### **HTML Basics**

- Structure of HTML documents
- Common HTML tags
- Forms and input elements
- Semantic HTML

### **CSS Fundamentals**

- Styling with CSS
- Selectors, properties, and values
- Box model and layout techniques
- Responsive design with media queries

### **Advanced CSS**

- Flexbox and Grid layouts
- CSS animations and transitions
- Preprocessors (Sass/LESS)

## **JavaScript Basics**

- Introduction to JavaScript
- Variables, data types, and operators
- Functions and control flow
- DOM manipulation

## **Advanced JavaScript**

- ES6+ features (arrow functions, destructuring, etc.)
- Asynchronous JavaScript (Promises, async/await)
- Event handling and delegation
- JavaScript modules

## **Version Control with Git**

- Introduction to Git and GitHub
- Basic commands (clone, commit, push, pull)
- Branching and merging
- Collaborating on GitHub

## **Front-End Tools and Workflows**

- Package managers (npm/yarn)
- Build tools (Webpack, Parcel)
- Task runners (Gulp, Grunt)
- Introduction to linting and formatting (ESLint, Prettier)

## **JavaScript Libraries and Frameworks**

- Introduction to jQuery
- Overview of React.js
  - Components and props
  - State management
  - Hooks and context API
- Introduction to Vue.js or Angular basics

## **API Integration**

- RESTful APIs and AJAX
- Fetch API and Axios
- JSON parsing and handling data
- Cross-origin resource sharing (CORS)

## **Testing and Debugging**

- Debugging techniques in browsers
- Unit testing with Jest
- End-to-end testing with Cypress
- Test-driven development (TDD) principles