INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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Frontend and Web Development

Introduction to Web Development

- Overview of web development
- Introduction to frontend, backend, and full-stack development
- Understanding web browsers, servers, and clients
- Basics of HTML, CSS, and JavaScript

HTML Fundamentals

- Introduction to HTML5
- HTML document structure
- Working with HTML elements, attributes, and tags
- Semantic HTML for better accessibility and SEO

CSS Fundamentals

- Introduction to CSS3
- CSS syntax and selectors
- Styling text, links, and backgrounds
- Box model and layout techniques

Responsive Web Design

- Introduction to responsive web design
- CSS media queries for different screen sizes
- Flexbox and Grid layout for responsive design

- Mobile-first development approach

JavaScript Fundamentals

- Introduction to JavaScript
- JavaScript syntax and variables
- Control flow and loops
- Functions and scope

DOM Manipulation

- Introduction to the Document Object Model (DOM)
- Accessing and manipulating DOM elements with JavaScript
- Event handling and responding to user actions
- Working with forms and form validation

Advanced JavaScript Concepts

- Object-oriented programming in JavaScript
- Prototypes and inheritance
- Asynchronous JavaScript and Promises
- ES6 features: arrow functions, destructuring, spread syntax

Introduction to Frontend Frameworks

- Overview of frontend frameworks (e.g., React, Vue.js, Angular)
- Pros and cons of using frontend frameworks
- Setting up a basic project with a frontend framework
- Introduction to component-based architecture

Version Control with Git

- Introduction to version control
- Setting up a Git repository
- Basic Git commands: commit, push, pull, branch
- Collaborating with Git and GitHub

Web Performance Optimization

- Importance of web performance optimization
- Techniques for improving website loading speed
- Optimizing images, CSS, and JavaScript
- Introduction to tools like Lighthouse and PageSpeed Insights

Web Accessibility

- Importance of web accessibility
- Understanding accessibility standards (WCAG)
- Techniques for making websites accessible to all users
- Testing for accessibility using tools like Axe and WAVE

Web Security Fundamentals

- Common web security vulnerabilities (e.g., XSS, CSRF, SQL injection)
- Techniques for securing web applications
- Introduction to HTTPS and SSL/TLS certificates
- Best practices for web security

Introduction to Backend Development

- Overview of backend development technologies (e.g., Node.js, Python, Ruby on Rails)
- Introduction to server-side programming languages
- Basics of database management systems (e.g., SQL, NoSQL)

Deployment and Hosting

- Deploying web applications to hosting platforms (e.g., Heroku, Netlify)
- Configuring domain names and DNS settings
- Continuous deployment and integration with services like GitHub Actions

Real-world Project

- Working on a real-world web development project from start to finish
- Applying concepts learned throughout the course
- Collaborating with peers and receiving feedback
- Presenting the final project to the class

Career Development and Job Search

- Resume building and LinkedIn optimization
- Networking and job search strategies
- Interview preparation and technical interview tips
- Continuing education and professional development opportunities