

INFOSOFT IT SOLUTIONS

Training | Projects | Placements

Revathi Apartments, Ameerpet, 1st Floor, Opposite Annapurna Block, Info

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Full Stack

Front-End Development

HTML and CSS

- Basics of HTML5
- CSS3 fundamentals
- Responsive design and media queries

JavaScript (JS)

- ES6 features and syntax
- DOM manipulation
- Asynchronous programming (Promises, async/await)

Frameworks and Libraries

- React.js or Angular (for building interactive user interfaces)
- Bootstrap or Materialize CSS (for styling)

Version Control

- Git and GitHub basics

Responsive Design

- Design principles
- CSS frameworks for responsive design
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Back-End Development

Server-side Languages

- Node.js with Express.js (or another server-side framework)
- Python with Flask or Django (alternative option)

Databases

- SQL fundamentals (MySQL, PostgreSQL)
- NoSQL databases (MongoDB)

APIs (Application Programming Interfaces)

- RESTful APIs
- Consuming APIs with AJAX/fetch

Authentication and Authorization

- User authentication (JWT, OAuth)
- Access control

Web Security

- Common security threats
- Best practices (input validation, encryption)

Tools and Deployment

Package Managers

- npm (Node Package Manager)
- pip (Python Package Installer)

DevOps Basics

- Continuous Integration/Continuous Deployment (CI/CD)
- Docker basics

Cloud Services

- AWS, Azure, or Google Cloud basics
- Deployment strategies (serverless, containers)

Front-end Development

Advanced HTML and CSS

- CSS Grid and Flexbox
- Responsive design principles
- CSS preprocessors (e.g., Sass, Less)
- CSS frameworks (e.g., Bootstrap, Foundation)

JavaScript

- ES6+ features
- Functional programming concepts
- Asynchronous JavaScript (Promises, Async/Await)
- DOM manipulation and events
- Browser APIs (LocalStorage, Fetch API, etc.)
- JavaScript modules and bundlers (Webpack, Rollup)

Front-end Frameworks

- React.js or Angular or Vue.js (choose one or more)
 - Advanced state management (Redux, Vuex, etc.)

- Component lifecycle and hooks (React)
- Routing and navigation

Responsive Web Design

- Media queries and responsive units
- Accessibility considerations

Version Control

- Git workflows
- Branching and merging strategies
- Collaboration tools (GitHub, GitLab, Bitbucket)

Back-end Development

Server-side Programming

- Node.js fundamentals
- Express.js or other Node.js frameworks
- RESTful API design and development
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Databases

- Relational databases (MySQL, PostgreSQL)
 - Advanced SQL queries and optimizations
- NoSQL databases (MongoDB, Firebase)

Authentication and Authorization

- JWT (JSON Web Tokens)
- OAuth and OAuth2
- Session management
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Web Security

- Cross-Site Scripting (XSS) and Cross-Site Request Forgery (CSRF)
- OWASP Top Ten vulnerabilities
- HTTPS and secure communication

Deployment and DevOps

- Containerization (Docker)
- Continuous Integration/Continuous Deployment (CI/CD)
- Cloud platforms (AWS, Azure, Google Cloud)
- End-to-end testing frameworks (Cypress)