



Consulting and Training | Reach New Heights

Course Name

Advanced Frontend Development

Sector Name

Information Technology

Document Type

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Advanced Frontend Development

Course Introduction

Advanced frontend development goes beyond basic UI design to include complex architectures, performance optimization, modern frameworks, and seamless user experiences.

This course equips participants with the skills to build scalable, maintainable, and high-performance web applications using advanced frontend technologies and best practices.

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Advanced Frontend Development

Target Audience

- ✓ Frontend Developers
- ✓ Web Developers
- ✓ Software Engineers

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Advanced Frontend Development

Learning Objectives

- ✓ Design and implement complex, responsive web applications.
- ✓ Utilize modern frontend frameworks and libraries effectively.
- ✓ Optimize frontend performance and user experience.
- ✓ Manage state, routing, and data flow in large-scale applications.
- ✓ Apply best practices in testing, security, and maintainability.
- ✓ Integrate frontend solutions with backend services and APIs.

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Advanced Frontend Development

Course Outline

✓ DAY 01

Advanced HTML, CSS, and UI Architecture

- ✓ Semantic HTML for accessibility and SEO
- ✓ Advanced CSS: Flexbox, Grid, Animations, and Transitions
- ✓ Responsive and adaptive design principles
- ✓ Component-based UI design patterns
- ✓ Structuring scalable CSS (CSS Modules, BEM, or Tailwind)

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Advanced Frontend Development

Course Outline

✓ Day 02

Modern JavaScript and ES6+ Features

- ✓ Advanced JavaScript concepts: closures, promises, async/await
- ✓ Modular JavaScript and design patterns
- ✓ Event handling, DOM manipulation, and performance considerations
- ✓ Working with APIs and asynchronous data fetching
- ✓ Debugging and profiling JavaScript for performance

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Course Outline

✓ Day 03

Frameworks and State Management

- ✓ Advanced React / Angular / Vue (choose based on stack)
- ✓ Component lifecycle and hooks (React) or equivalents
- ✓ State management with Redux, Vuex, or NgRx
- ✓ Context, props, and reactive data flows
- ✓ Routing and navigation in single-page applications (SPA)

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Course Outline

✓ Day 04

Testing, Optimization, and Security

- ✓ Unit, integration, and end-to-end testing
- ✓ Testing tools: Jest, Cypress, or equivalent
- ✓ Frontend performance optimization: lazy loading, code splitting, caching
- ✓ Web accessibility best practices
- ✓ Security considerations: XSS, CSRF, input validation

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Course Outline

✓ Day 05

Advanced Integration and Deployment

- ✓ Integrating frontend with RESTful and GraphQL APIs
- ✓ Webpack, Vite, or other build tools and bundlers
- ✓ CI/CD for frontend applications
- ✓ Monitoring and maintaining production applications
- ✓ Best practices for code quality, maintainability, and team collaboration

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
July 12, 2026	July 16, 2026	5 days	4250.00 \$	KSA , Riyadh
Dec. 20, 2026	Dec. 24, 2026	5 days	2150.00 \$	Virtual , Online
May 11, 2026	May 15, 2026	5 days	4950.00 \$	Greece , Athens
March 29, 2027	April 2, 2027	5 days	4250.00 \$	UAE , Dubai

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