

## Mastering Advanced Ajax for J2EE Developers

### Course Summary

#### Description

Mastering Advanced AJAX is a, comprehensive hands-on Ajax training course geared for developers who want to expand their knowledge and skills in architecting and developing sophisticated AJAX.

#### Objectives

At the end of this course, students will be able to:

- Review the basics of AJAX and the various behavioral patterns that are relatively unique to AJAX interactions between the client and the server-side
- Design applications to use the best of the various options for moving data and how to control and affect the behavior of the browser in interacting with the server
- Improve the performance (from the user's perspective) of AJAX applications
- Examine application security, ranging from web and XML application issues to the vulnerabilities and threats that are specific to AJAX

#### Topics

- Review AJAX Patterns
- AJAX Performance
- AJAX Security
- AJAX Accessibility
- AJAX Advanced Topics

#### Audience

This is an intermediate level AJAX course, designed for experienced developers who need to extend their knowledge of AJAX design and development or need to reinforce sound AJAX coding practices, immediately

#### Prerequisites

Attendees should have previous experience or working knowledge of AJAX as well as a working knowledge of developing software applications. This is a programming class. Familiarity with an object-oriented language is helpful, and real world programming experience is a must.

#### Duration

Two days

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### Course Outline

- I. Review AJAX Patterns**
  - A. Web Remoting and Streaming
  - B. Dynamic Behavior - Events and Timers
  - C. RESTful Services
  - D. AJAX Data Options
    - i. HTML, Plain-Text, XML, and JSON
  
- II. AJAX Performance**
  - A. Persistence Options
  - B. Download Options
    - i. Predictive
    - ii. Multi-Stage
    - iii. On Demand
    - iv. Compression
  
- III. AJAX Security**
  - A. Web Application Security
  - B. XML Threats and Defenses
  - C. AJAX Vulnerabilities and Exposures
  - D. Defending AJAX Applications
  
- IV. AJAX Accessibility**
  - A. AJAX Accessibility Overview
  - B. JavaScript Accessibility
  
- V. AJAX Advanced Topics**
  - A. AJAX Debugging and Testing
  - B. Programming Best Practices
  - C. XML Best Practices
  - D. JavaScript Best Practices