

INTRO TO MOBILE APPLICATION DEVELOPMENT CLASS

In the rapidly evolving landscape of mobile development, it is difficult to cut through the noise and identify the thing or things that will lead you to success when building mobile solutions for the enterprise. With the SoftSource I-MAD class (Intro to Mobile Application Development), SoftSource aims to provide some answers and solutions to a common problem we face in the enterprise: How to nimbly provide a solid, scalable solution that provides value, delight, and a consistent experience to the desktop and the device, without having to write several different versions of the same app or web application?

In an unstuffy and conversational format, participants will learn how to build hybrid iOS apps as a solution to the cross-platform problem. SoftSource will show the power of hybrid as a solution, and weigh all of the pros and cons associated with going hybrid when deciding on an architecture. We'll stack it up for you against native, shrink-wrap hybrid, and native shared-codebase solutions like Xamarin.

Additionally, participants will learn to build a hybrid single page application using modern web technologies like Backbone.js, Angular.js, Require.js, and SASS inside of a native container participants will both write and build upon, from scratch, in Objective-C using native iOS frameworks. No dependencies on black box native containers like PhoneGap or Titanium! SoftSource will show you how easy it is to roll your own, and how to build a bridge between your JavaScript and native Objective-C code to produce a robust hybrid solution ready to do business. Many other topics are covered, including design patterns in Objective-C and JavaScript, learning Objective-C by mind-mapping to what you already know about C# and Java, unit testing and TDD in both Objective-C and JavaScript, how to bootstrap continuous integration for iOS, setting up ad hoc over-the-air deploys for testing, and much more.

COURSE CURRICULUM

PREREQUISITES:

- Some basic knowledge of web applications development using HTML, javascript, and CSS
- Some basic knowledge of jQuery
- Knowledge of or background in C# or Java.
- Design patterns and unit testing experience helpful

EXAMPLE TOPICS:

Architectural Decisions for Mobile: Choosing the Right Stack for the Project and the Business - Hybrid vs. Native vs. Xamarin

C# => Objective-C Mind Mapping: Walkthrough of some C# code examples and their Objective-C equivalent using Object Literals, Blocks and more

Javascript 101 and Prototype

Visual Studio => JetBrains AppCode, WebStorm, Xcode 5

Version Control with Xcode 5, AppCode, WebStorm and Cornerstone

iOS Device Provisioning and Developer Certification

LAB: Hybrid Hello World - Build a cross-platform hybrid "Hello World" application for iOS and Android with XCode 5, Android Studio & WebStorm

Backbone and Underscore Fundamentals

RequireJS

Debugging/Styling with Chrome and Safari 7 Web Inspectors

MV* patterns in Backbone and Objective-C

LAB: Build main view for a hybrid iOS7 HTML5 RESTful app Using Backbone.js, Underscore.js, jQuery, and HTML5

SASS and Compass

Objective-C: REST Web Services with AFNetworking

Objective-C: Core Data

iOS Over-The-Air Deployments

LAB: Build a simple, fun native iOS app using Xcode 5 and iOS7's new UIKit Dynamics!

Javascript Unit Testing with Jasmine, Sinon & Karma

Objective-C: Unit Testing with XCTest in Xcode

Memory Profiling with Xcode 5 and Instruments

Multithreading with Grand Central Dispatch

Javascript to iOS and iOS to Javascript Bridging

Converting views in an HTML5 hybrid application to Native: Methods for Hybrid to Native migration of views, as well as mixed Hybrid/Native apps

SOME OF OUR CURRENT CLASSES

AZURE

PRACTICAL LINQ

PRACTICAL WPF

PRACTICAL WCF

PRACTICAL ASP.NET 3.5

SQL SERVER 2008 FOR DEVELOPERS

PRACTICAL SILVERLIGHT FOR DEVELOPERS

PRACTICAL MICROSOFT® EXPRESSION BLEND

PROGRAMMING WITH .NET FRAMEWORK—C#

TADVANCED .NET FRAMEWORK—C#

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