

Node.js

Course Name	Node.js
Course Description	It seems like the world has gone mad. For years we have been struggling with JavaScript on the client side, and now all of the sudden people can't have enough of it on the server side. They claim it is "fun". This is not a fringe phenomenon: Node.js is being used by giants like eBay, LinkedIn and Microsoft. In this tutorial we will learn to embrace the Zen of Node.js.
Target Population	This course is intended for professional Web developers, team leaders and architects who have knowledge in JavaScript. Members of the audience should have a minimum of one to two years of experience developing Web-based applications.
Pre-requisites	<ul style="list-style-type: none"> ● Basic JavaScript skills. ● Web Development background
Course Topics	<p>Day 1</p> <p>Asynchronous JavaScript Everywhere</p> <ul style="list-style-type: none"> ● Introduction to Node.js ● Setting up the dev environment ● Streams ● File System <p>Building servers using the http and net modules</p> <ul style="list-style-type: none"> ● HTTP ● Net <p>Node modules and events</p> <ul style="list-style-type: none"> ● Modules ● NPM ● Event emitters <p>Express</p> <ul style="list-style-type: none"> ● Connect middleware ● Express ● Jade <p>Accessing Data</p> <ul style="list-style-type: none"> ● MongoDB ● Mongoose ● SQL Server ● Redis

	<p>Day 2</p> <p>Working with Socket.IO</p> <ul style="list-style-type: none">• Why Socket.IO?• Broadcasting messages• Private messaging with events• Storing socket specific data• Namespaces <p>Clusters</p> <ul style="list-style-type: none">• How clusters work• Creating a cluster• Pitfalls <p>Best practices</p> <ul style="list-style-type: none">• Coding Standards• Exception handling• Node util <p>Hosting</p> <p>Node</p> <ul style="list-style-type: none">• Forever and PM2• IISNode• Node on Windows Azure• Debugging with node-inspector <p>Unit tests</p> <ul style="list-style-type: none">• Jasmin.js• Mocha
Course Duration	2 days (16 hours)

