

Greater Illinois Software Symposium

Marriott Normal
April 9 - 10, 2010

The No Fluff Just Stuff Java Symposium Series is proud to announce the return of the Greater Illinois Software Symposium on April 9 - 10, 2010. GILSS2009 will be held at the Marriott Normal.

Since 2001, the No Fluff Just Stuff Java Symposium has been regarded as the premier Java/Agility event series anywhere serving over 29,500 attendees with some 190 events. The popularity of the NFJS symposium series can be traced to the following:

- 1). Exceptional Speakers
- 2). Limited Attendance - capped at 250 people
- 3). No Vendors, No Sales Pitches, No Marketecture
- 4). Excellent networking opportunity with speakers and fellow attendees because of small size.
- 5). The Best Value in the Java conferencing space period.

Topics for the 2010 NFJS Tour

Languages on the JVM: Groovy, JRuby, Clojure, Scala
HTML5
Enterprise Java
Core Java, JVM Internals
No SQL: MongoDB
JSF, GWT
Agility
Groovy, Grails, Gradle
REST, RDFa, Resource Oriented Architectures
GIT Version Control
jQuery, Ajax, Flex, RIA
Mobile Applications - iPhone and Android
More...

The Registration Fee Includes:

3 Day All Access Pass to GILSS2009
All Meals/Snacks - duration of the symposium
90 Day IntelliJ license compliments of JetBrains
Session Materials
Custom NFJS Binder
Great Giveaways @ NFJS

Early Bird Registration: \$875/person good thru 3/12/10 after \$975

Excellent Group Discounts Available - bring your entire development team to the show - no travel required!! Rate good thru 3/12/10

Registration Fees

Attendees	Before Mar. 12, 2010	After Mar. 12, 2010
5-9	\$775	\$875
10-14	\$750	\$850
15-24	\$725	\$825
25+	\$700	\$800

Go to <http://www.nofluffjuststuff.com/conference/bloomington/2010/04/home> and register today!

Greater Illinois Software Symposium

-Session Schedule-

(event schedule as of April 6, 2010)

Friday, Apr. 9

7:30 - 8:30 AM : REGISTRATION/BREAKFAST

8:30 - 8:45 AM : WELCOME

8:45 - 10:15 AM - Sessions

Session #1 : Open Source Debugging Tools for Java by Matthew McCullough

This session will survey a wide range of tools across the Java space. We'll look at utilities such as VisualVM, jstatd, jps, jhat, jmap, Eclipse Memory Analyzer, jtracert, btrace and more. Open Source is not just a suite of libraries you consume within your application, but now reaches into the space of tools to help you troubleshoot and improve your applications. The price of these tools eliminates barriers to their use and their open source nature allows you to mix and match them into compositions that work well for your application's unique debugging needs.

Session #2 : Open Source Business Intelligence Part I by Tim Berglund

Traditionally, business intelligence tools have been a high-cost part of any enterprise's software inventory. Recently, options have emerged that allow architects to build a credible business intelligence stack out of entirely open-source components. In this brief overview, we will demonstrate ETL, reporting, and analytics tool that can be deployed free or at low cost. Learn how to turn your company's transactional database into a rich data asset with a business-friendly user interface that integrates into your existing software infrastructure.

Session #3 : Implementing Evolutionary Architecture by Neal Ford

This talk describes an agile approach to architecture, and merges the current state-of-the-art thinking in both service oriented architectures(SOA) and web-based architectures like HTTP, REST, and hypermedia.

Session #4 : The Busy Java Developer's Guide to Collections by Ted Neward

For so many Java developers, the java.util.* package consists of List, ArrayList, and maybe Map and HashMap. But the Collections classes are so much more powerful than many of us are led to believe, and all it requires is a small amount of digging and some simple exploration to begin to "get" the real power of the Collection classes.

10:15 - 10:45 AM : BREAK

10:45 - 12:15 PM - Sessions

Session #5 : Encryption on the JVM: Boot Camp by Matthew McCullough

Does your application transmit customer information? Are there fields of sensitive customer data stored in your DB? Can your application be used on insecure networks? If so, you need a working knowledge of encryption and how to leverage Open Source APIs and libraries to make securing your data as easy as possible. Encryption is quickly becoming a developer's new frontier of responsibility in many data-centric applications.

Session #6 : Open Source Business Intelligence Part II by Tim Berglund

Once you're familiar with the concepts of data warehousing, star schemas, cubes, and pivot tables, then it's time to dive in and look at how the tools really work. Continuing from the quick demos in Part I, in this talk we'll walk through the process of transforming a transactional database into a star schema, then we'll use an open-source analytics tool to build a "cube" with that schema. Concepts and procedures gently introduced in Part I will be explored more thoroughly, and new tooling will be introduced. **Prerequisite:** *Open Source Business Intelligence Part I (or a solid grasp of BI concepts)*

Session #7 : Emergent Design by Neal Ford

Emergent design is a big topic in the agile architecture and design community. This session covers the theory behind emergent design and shows examples of how you can implement this important concept. **Prerequisite:** *understanding of architectural and design concepts*

Session #8 : The Busy Java Developer's Guide to Functional Java by Ted Neward

Much noise has been made in recent years about functional languages, like Scala or Haskell, and their benefits relative to object-oriented languages, most notably Java. Unfortunately, as wonderful as many of those benefits are, the fact remains that most Java developers will either not want or not be able to adopt those languages for writing day-to-day code. Which leaves us with a basic question: if I can't use these functional languages to write production code, is there any advantage to learning about them? The short answer is yes, for the fundamental premise--"I can't use functional code on my Java project"--is flawed. Java developers can, in fact, make use of functional ideas, and what's better, they don't even have to reinvent them for Java--thanks to the FunctionalJava library, many of the core primitives--interfaces that serve as base types for creating function values, for example--already exist, ready to be used.

12:15 - 1:15 PM : LUNCH

1:15 - 2:45 PM - Sessions

Greater Illinois Software Symposium

-Session Schedule-

(event schedule as of April 6, 2010)

Session #9 : Encryption on the JVM: Advanced Techniques by Matthew McCullough

Now that you have the basics of encryption under your belt, we'll advance to talking about where it is sensible and performant to add this level of security to your application. Symmetric key and public key encryption have various levels of processing overhead, so you can't blindly just use the "best" encryption out there. What about password hashes? Did you know they are vulnerable with our "salt"?

Prerequisite: *Encryption Bootcamp on the JVM*

Session #10 : Practical Agile Database Development by Tim Berglund

Do your team's agile practices extend to the database? Agile methods are fairly well-understood as they apply to code, but these principles are not commonly understood or practiced on the databases that typically accompany enterprise software projects. Learn the tools, techniques, and mindset your team needs to make incremental improvements to the database's design over time with confidence.

Session #11 : Testing the Entire Stack by Neal Ford

This talk covers testing the entire stack: unit, integration, functional, behavior-driven, databases, user acceptance, mocking & stubbing, and other topics and strategies. **Prerequisite:** *Confusion about what to test when and where*

Session #12 : The Busy Java Developer's Guide to Advanced Collections by Ted Neward

Once you've learned the core Collections classes, you're done, right? You know everything there is to know about Collections, and you can "check that off" your list of Java packages you have to learn and know, right? **Prerequisite:** *Busy Java Developer's Guide to Collections*

2:45 - 3:00 PM : BREAK

3:00 - 4:30 PM - Sessions

Session #13 : Hadoop: Divide and Conquer Gigantic Datasets (Intro) by Matthew McCullough

Moore's law has finally hit the wall and CPU speeds have actually decreased in the last few years. The industry is reacting with hardware with an ever-growing number of cores and software that can leverage "grids" of distributed, often commodity, computing resources. But how is a traditional Java developer supposed to easily take advantage of this revolution? The answer is the Apache Hadoop family of projects. Hadoop is a suite of Open Source APIs at the forefront of this grid computing revolution and is considered the absolute gold standard for the divide-and-conquer model of distributed problem crunching. The well-travelled Apache Hadoop framework is currently being leveraged in production by prominent names such as Yahoo, IBM, Amazon, Adobe, AOL, Facebook and Hulu just to name a few.

Session #14 : HTML 5 ... and the Kitchen Sink by Brian Sletten

HTML 5 is an adventurous and confusing prospect that will help change the Web as we know it. It is being finalized as a standard but won't be fully supported by most browsers for quite some time. Companies like Apple and Google have already committed to it as the future of Web application development, however. There are a huge number of new features, updates and gotchas coming at us (including the proverbial kitchen sink!) so it is time to get prepared. This talk will walk you through the new bits and try to put it all into perspective.

Session #15 : Visualizations for Code Metrics by Neal Ford

Judicious use of metrics improves the quality of your code. But interpreting metrics presents a challenge. You have a list of numbers for a project - what does it mean? And what does it tell me about the health of the project overall? This session shows how to produce visualizations for software metrics, making them easier to understand and more valuable. It covers metrics at the individual method level all the way up to the overall architecture of the application. This isn't just a talk about how some tools produce visualizations: this session shows you how to generate your own visualizations, allowing you to customize it to the level in information density that shows real value on your project. I show how to produce projected graphs from dependencies, heat-maps for cyclomatic complexity and code coverage, using XSLT to extract visual information from XML configuration documents, and others. Metrics can't help you if you can't understand them. By creating visualizations, it helps leverage metrics to make your code better.

Session #16 : The Busy Java Developer's Guide to Concurrency (Part 1: Threads) by Ted Neward

Java's threading capabilities took a serious turn for the better with the release of Java5, thanks to the incorporation of the `java.util.concurrent` packages, a set of pre-built components for thread pooling and execution, synchronization, and more.

4:30 - 4:45 PM : BREAK

4:45 - 6:15 PM - Sessions

Session #17 : iBeans: The Simplest Service Integrations You've Ever Implemented by Matthew McCullough

No app is an island nowadays and your bleeding edge Java & JavaScript apps demand that you integrate with Facebook, Amazon, Gmail, Google Search, Twitter or S3 just to name a few. Make your next integration project a breeze by leveraging the successful work of others from the iBeans Central repository, or if necessary, simply author a new iBean and contribute it back for the benefit of all. iBeans a new ultra-light service integration framework written in Java, but targeting both Java and JavaScript. It provides a centralized mechanism for community contributions of beans to the most commonly used services such as Twitter, Flickr, Gmail and more.

Greater Illinois Software Symposium

-Session Schedule-

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Session #18 : REST : Information-Driven Architectures for the 21st Century by Brian Sletten

There is a shift going on in the Enterprise. While still used and useful, the promises of the SOAP/WSDL/UDDI Service-Oriented Architecture (SOA) stack have failed to live up to their promise. A new vision of linked information is enveloping online and Enterprise users. The REST architectural style is squarely behind this thinking as a way of achieving low-cost, flexible integration, increased data security, greater scalability and long-term migration strategies. If you have dismissed REST as a toy or are unfamiliar with it, you owe it to yourself to see what is so interesting about this way of doing things.

Session #19 : Decision Making in Software Teams by Tim Berglund

Alistair Cockburn has described software development as a game in which we choose among three moves: invent, decide, and communicate. Most of our time at No Fluff is spent learning how to be better at inventing. Beyond that, we understand the importance of good communication, and take steps to improve in that capacity. Rarely, however, do we acknowledge the role of decision making in the life of software teams, what can cause it to go wrong, and how to improve it.

Session #20 : The Busy Java Developer's Guide to Concurrency (Part 2: Concurrency) by Ted Neward

Java's threading capabilities have been a part of the Java platform since its inception, yet for many Java developers, using Threads still remain a dark and mysterious art, and synchronization beyond the use of the "synchronized" keyword is almost unknown.

Prerequisite: *The Busy Java Developer's Guide to Concurrency (Part 1: Threads)*

6:15 - 7:00 PM : DINNER

Saturday, Apr. 10

7:30 - 8:15 AM : BREAKFAST

8:15 - 9:45 AM - Sessions

Session #21 : What's Brewing in Java by Venkat Subramaniam

Java has come a long way, and yet there is so much that's happening in this space. In this presentation we will take a look at the exciting additions and changes coming up in the next version of Java. **Prerequisite:** *Good programming knowledge of Java*

Session #22 : jQuery: Ajax Made Easy by Nathaniel Schutta

Sure, Ajax might not be the hardest thing you'll have to do on your current project, but that doesn't mean we can't use a little help here and there. While there are a plethora of excellent choices in the Ajax library space, jQuery is fast becoming one of the most popular. In this talk, we'll see why. In addition to its outstanding support for CSS selectors, dirt simple DOM manipulation, event handling and animations, jQuery also supports a rich ecosystem of plugins that provide an abundance of top notch widgets. Using various examples, this talk will help you understand what jQuery can do so you can see if it's right for your next project.

Session #23 : Architecture and Scaling by Ken Sipe

Scale... what is scale... how do you applications that are scalable. How do you know if the application scales?

Session #24 : Test Driven Design by Neal Ford

Most developers think that "TDD" stands for Test-driven Development. But it really should stand for "Test-driven Design". Rigorously using TDD makes your code much better in multiple ways.

9:45 - 10:00 AM : BREAK

10:00 - 11:30 PM - Sessions

Session #25 : Git Going with Distributed Version Control by Matthew McCullough

Many development shops have made the leap from RCS, Perforce, ClearCase, PVCS, CVS, BitKeeper or SourceSafe to the modern Subversion (SVN) version control system. But why not take the next massive stride in productivity and get on board with Git, a distributed version control system (DVCS). Jump ahead of the masses staying on Subversion, and increase your team's productivity, debugging effectiveness, flexibility in cutting releases, and repository redundancy at \$0 cost. Understand how distributed version control systems are game-changers and pick up the lingo that will become standard in the next few years. **Prerequisite:** *Basic understanding of Subversion or similar version control system*

Session #26 : JavaScript Beyond the Basics by Nathaniel Schutta

JavaScript is one of the most widely used languages around and yet its also one of the most misunderstood. With Ajaxified UIs becoming the norm, this humble language is once again at the forefront.

Greater Illinois Software Symposium

-Session Schedule-

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Session #27 : Debugging your Production JVM by Ken Sipe

So your server is having issues? memory? Connections? Limited response? Is the first solution to bounce the server? Perhaps change some VM flags or add some logging? In today's Java 6 world, with its superior runtime monitoring and management capabilities the reasons to bounce the server have been greatly reduced.

Session #28 : How to Approach Refactoring by Venkat Subramaniam

You can't be agile if your code sucks. You know that you have to constantly refactor your code and design. But the question is how? In this presentation, instead of looking at a laundry list of refactoring techniques, we will instead look at how to effectively approach refactoring and along the way discuss some core principles to look for.

11:30 - 12:15 PM : EXPERT PANEL DISCUSSION

12:15 - 1:00 PM : LUNCH

1:00 - 2:30 PM - Sessions

Session #29 : Third time's a charm: What's new in Spring 3.0 by Craig Walls

In this session, I'll lead a guided tour through the latest that Spring has to offer. Whether you're a Spring veteran or a Spring newbie, there will be something new for nearly everyone.

Session #30 : Agile UI by Nathaniel Schutta

Some developers assume that agility and usability are mutually exclusive - in reality, they are extremely complimentary; if you squint, you might have a hard time telling the difference between agile practices and good user interface design. This usability talk is aimed squarely at developers giving you the tools you need to develop UIs that won't make your users yack. We'll discuss the importance of observation, personas, paper prototyping, usability testing and the importance of good moderators. In addition, we'll map the various aspects of user interface design to a typical agile iteration.

Session #31 : Enter The Gradle by Ken Sipe

In the Java build space, first there was ANT, which provided a reliable way to build without an IDE. Then there was Maven, which provided standardization in build life cycles and dependency management. Now... Enter the Gradle, which provides convention over configuration approach to the build process and an approach at building that isn't based XML. *Prerequisite: Some Groovy helpful*

Session #32 : Testing with dependencies by Venkat Subramaniam

Testing is a key ingredient to the success of a project. However, testing becomes awfully hard when your application deals with dependencies and that is often the reality.

2:30 - 2:45 PM : BREAK

2:45 - 4:15 PM - Sessions

Session #33 : Introducing Spring Roo: From Zero to Working Spring Application in Record Time by Craig Walls

In this example-driven session we'll see how to swiftly develop Spring applications using Spring Roo. We'll start with an empty directory and quickly work our way up to a fully functioning web application. You'll see how Roo handles a lot of heavy-lifting that you'd normally have to do yourself when working with Spring. And we'll stop at a few scenic points along the way to see how Roo accomplishes some of its magic.

Session #34 : RDFa : Weaving Richness and Meaning in the Web by Brian Sletten

The human web is reasonably well in hand by now. We are getting pretty good at building systems that people find valuable and entertaining. We have not spent as much time concerned about our software friends. There is a ton of rich content available on the web that is too difficult to extract in automated ways using just XHTML, the meta tag and microformats. This talk will introduce you to some emerging technologies from the Semantic Web camp to enrich your web pages with useful information for both automated extraction and improved browsing experiences.

Session #35 : Enterprise Security API library from OWASP by Ken Sipe

When it comes to cross cutting software concerns, we expect to have or build a common framework or utility to solve this problem. This concept is represented well in the Java world with the loj4j framework, which abstracts the concern of logging, where it logs and the management of logging. The one cross cutting software concern which seems for most applications to be piecemeal is that of security. Security concerns include certification generation, SSL, protection from SQL Injection, protection from XSS, user authorization and authentication. Each of these separate concerns tend to have their own standards and libraries and leaves it as an exercise for the development team to cobble together a solution which includes multiple needs.... until now... Enterprise Security API library from OWASP.

Greater Illinois Software Symposium

-Session Schedule-

(event schedule as of April 6, 2010)

Session #36 : Tackling Concurrency on the JVM by Venkat Subramaniam

In this presentation we will take a quick walk through the issues with concurrency and how the solutions provided in Scala and Clojure help address those.

4:15 - 4:30 PM : BREAK

4:30 - 6:00 PM - Sessions

Session #37 : Modular Java: An Introduction to OSGi by Craig Walls

Contrary to what you may have heard, OSGi is neither complex, nor heavyweight. In this session, I'll show you how OSGi can actually simplify application development rather than complicate it. We'll look at the benefits of modularity, the fundamentals of OSGi, and see how to develop basic OSGi bundles. We'll also see how a few gadgets in the OSGi toolbox can ease the development of OSGi bundles.

Session #38 : SPARQL : Querying the Web of Data by Brian Sletten

The human-friendly Web is about nicely-formatted, accessible content for users to browse. There are emerging Data Webs (both public and private) that rely on technologies from the Semantic Web stack to link increasingly rich connections between various data sources. SPARQL and RDF are the main tools for expressing and using this connectivity. This talk will introduce you to one of these topics and the practical and accessible aspects of employing them on the Web and in the Enterprise. Getting people to come to consensus on common models and schemas is usually the hardest part of any data integration strategies. These technologies help lower the bar on both the technical and social costs of stepping up your integration strategies.

Session #39 : Hacking Your Brain for Fun and Profit by Nathaniel Schutta

The single most important tool in any developers toolbox isn't a fancy IDE or some spiffy new language - it's our brain. Despite ever faster processors with multiple cores and expanding amounts of RAM, we haven't yet created a computer to rival the ultra lightweight one we carry around in our skulls - in this session we'll learn how to make the most of it. We'll talk about why multitasking is a myth, the difference between the left and the right side of your brain, the importance of flow and why exercise is good for more than just your waist line.

Session #40 : Transforming to Groovy by Venkat Subramaniam

Groovy is a elegant, dynamic, agile, OO language. I like to program in Groovy because it is fun and the code is concise and highly expressive. Writing code in a language is hardly about using its syntax, however. It is about using the right idioms. Come to this section to pick up some nice Groovy idioms. **Prerequisite:** *Some knowledge of Groovy is helpful but not required.*