

Software Engineering Presentations

CSCI 5828: Foundations of Software Engineering
Lecture 28 — 04/26/2012

Goals

- Provide an overview of the topics covered by the SE Presentations

SE Presentations

- As you know, students in this class were asked to create presentations that would explore a topic related to software engineering in depth
 - 40 presentations were submitted and are available on the class website
 - <<http://www.cs.colorado.edu/~kena/classes/5828/s12/presentations/>>
 - 7 presentations were created by students working in teams
 - 2 students created screencasts to enhance their presentations
 - 2 students submitted archives of source code to augment their presentations

Topics (I)

- Frameworks
 - Apache MINA
 - Java Concurrency Framework
 - Django; Symfony 2; Apache Tapestry
 - OSGi
 - Qt
 - Ruby on Rails
 - SDL

Topics (II)

- Concurrency
 - CUDA Parallel Processing
 - Scala & Go's Concurrency Constructs
- Configuration Management
 - Git
 - Mercurial
- Continuous Integration
 - Jenkins
 - Bamboo

Topics (III)

- Software Life Cycles
 - Community Driven Projects
 - Lean Software Development
 - Scrum
- Software Architecture
 - Model-Driven Software Architecture
 - Service-Oriented Architecture
 - Software as a Service

Topics (IV)

- Software Design
 - Balking Design Patterns
 - Design by Contract
 - Software Engineering in Game Design
- Software Tools
 - Modern Integrated Development Environments

Topics (V)

- Software Testing, Verification, and Analysis
 - Mock Objects
 - Program Analysis
 - Static Analysis
 - Testing Frameworks
 - Testing/Debugging Concurrent Programs

Topics (VI)

- Software Engineering Techniques
 - Pair Programming
 - Requirements Solicitation and Analysis
 - Software Metrics
 - Software Security (magnum opus)
 - Software Specifications

Topics (VI)

- Software Engineering
 - History of SE Research
 - Indie App Development
 - Software Disasters
 - Structures for Software Development Teams

Previews

- Let's take a look at some of the executive summaries
 - My apologies if I do not cover every presentation!

Summary

- Nice work everyone!

Coming Up Next

- Lecture 29: Grand Central Dispatch
- Lecture 30: Semester Wrap-Up