Mark Reynolds' Biography for Technical Conferences Publications

Mark has been developing operations-centric solutions, Machine Learning, Predictive Analytics, and Surveillance Systems. Mark's experience includes addressing challenges in Operations Technology, Information Technology, and Knowledge Engineering. Recently he has been a contributing leader in public forums as an Applied System Engineer and Machine Learning Architect. Mark is a contributing author for energy industry and computer science magazines, and speaker at industry conferences. In his spare time, he is Professor of Computer Science at Lone Star College.

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2019 – 2020 Topics

New Developer Technologies for the NON-Developer

A time to learn how your developers think, understand, and struggle with new technologies. Understand developer paradigms, development strategies, and the technical perspective. Introduction to technical disciplines and the bravado of the development teams. Finally, a non-developer's discussion of the Agile and DevOPS philosophies.

[Recommended for non-developer technical conferences]

Machine Learning for the Developer – Part 2

Application of the Microsoft Toolkits, SDKs, and APIs will be surveyed and demonstrated in VS 2019. Particular attention will be given to Azure Cognitive Services, ML.NET, and Microsoft Cognitive Toolkit. How-to examples will include for Classification, Clustering, Regression, Neural Nets, and Vision.

[Recommend basic understanding of ML]

Machine Learning for the Developer – Part 1

Getting started in Azure Machine Learning is easy. The first working prototype is an easy evening project. But Azure ML will grow to extremely complex projects. This session will demonstrate projects utilizing data science principals.

[This was a 2018 topic, revised and enhanced for 2019.]

Blazor

Blazor lets you build interactive web UIs using C# instead of JavaScript. Blazor apps are composed of reusable web UI components implemented using C#, HTML, and CSS. Both client and server code is written in C#, allowing you to share code and libraries.

Blazer is the next generation moving away from frameworks such as JavaScript, Angular, or React.

Introduction to Python

Python has become a core proficiency for Machine Learning and Data Analytics. This session will jump-start the inquisitive.

Topics in Development

Blockchain Part 1 - Developer Introduction (no code)
Blockchain Part 2 – Developing an App (w/ code)

How does a Blockchain solution address the promised trust, security, privacy and performance?

Part 1 (Developer Introduction - no code) is the academic basis of Blockchain from the developer's perspective.

Part 2 (Developing an App - w/ code) demonstrates initial projects from different use cases utilizing different tools.

[These topics will be available in 2020.]

Other Popular Topics

Coding Standards --- Effective Not Just Efficient

Every project has a development standard. Sometimes the standard is "if it was hard to write, it should be hard to maintain."

Developing, and following, a corporate Best Practices standard will lead to continuity, maintainability, robustness, and pride.

[Most popular topic – revised and enhanced for 2019.]

Intro to Azure Machine Learning using the AML Learning Studio

Azure Machine Learning is a cloud predictive analytics service that makes it possible to quickly create and deploy predictive models as analytics solutions. This session will demonstrate initial projects utilizing data science concepts and principals.

[This was a 2018 topic, revised and enhanced for 2019.]

Introduction to R --- Why do we need another language?

R is a core proficiency for Machine Learning and Data Analytics. This session will jump-start the inquisitive mind.

[This was a 2018 topic, revised and enhanced for 2019.]