🕐 Wednesday, October 7, 2020

Project Intro and Scope

🕐 Thursday, October 8, 2020

ASP.NET Core and Microservices

- Intro to ASP.NET Core

- Configurations

- Middleware

- IActionResult

- Intro to Microservices

- Advantages and disadvantages

🕐 Monday, October 12, 2020

Architecture Patterns

- Intro to SOLID, Clean Code, Domain Driven Design

- Advantages and Disadvantages

- Patterns for Microservices (e.g. Gateway aggregation, DB per service)

🕐 Wednesday, October 14, 2020

Project Architecture Discussion

🕐 Thursday, October 15, 2020

Project Architecture Review

🕐 Monday, October 19, 2020

Intro to JS

- Fundamentals (Variables, Data Types, Functions, Loops)

- Basic Objects

- Prototypes

- Inheritance

- Classes

- Event Loop

🕐 Wednesday, October 21, 2020

Generics

- Covariance

- Contravariance

- Invariance

- Generic constraints

🕐 Thursday, October 22, 2020

React.js - Part 1

- Intro to React

- Setup and Tools

- JSX

- Element rendering

🕐 Monday, October 26, 2020

React.js - Part 2

- Components

- Props

- State and Lifecycle

🕐 Wednesday, October 28, 2020

Collections

- IEnumerable/IEnumerator

- Yield

- ICollection

- IList

- KeyedCollection

🕐 Thursday, October 29, 2020

React.js - Part 3

- Events

- Conditional formatting

- Lists and Keys

🕐 Monday, November 2, 2020

LINQ

- Func and Actions

- LINQ to Object

- LINQ to SQL

- Anonymous and dynamic types

🕐 Wednesday, November 4, 2020

React.js - Part 4

- Forms

- Lifting State Up

- Composition vs Inheritance

🕐 Thursday, November 5, 2020

Expressions - Part 1

- Interaction

🕐 Monday, November 9, 2020

Expressions - Part 2

- Paradigms

🕐 Wednesday, November 11, 2020

React.js - Part 5

- Hooks

- Thinking in React

- Intro to React Router

🕐 Thursday, November 12, 2020

React.js - Part 6

- Intro to Redux

- Intro to Bootstrap

🕐 Monday, November 16, 2020

Sync/Async Programming - Part 1

- Threads (Create, Join etc.)

🕐 Wednesday, November 16, 2020

Sync/Async Programming - Part 2

- ThreadPool

- Tasks

- Parallel

🕐 Thursday, November 19, 2020

Sync/Async Programming - Part 3

- async/await

🕐 Monday, November 23, 2020

Data Structures (Under the hood) - Part 1

- Array

- List

- Linked List

- Stack

- Queue

🕐 Wednesday, November 25, 2020

Data Structures (Under the hood) - Part 2

- HashSet

- Dictionary

- SortedDictionary

🕐 Thursday, November 26, 2020

Data Structures (Under the hood) - Part 3

- Read-only and Concurrent Collections

ⓘ During the project, you will also gain working experience with the following areas:

✓ Docker/kubernetes

✓ Azure/AWS

✓ Networking, Security

✓ .NET Core Applications Under Linux/WSL

✓ Enterprise Project Build Tools/Practices