

🕒 Wednesday, December 16, 2020

Project Intro and Scope

🕒 Thursday, December 17, 2020

ASP.NET Core and Microservices

- Intro to ASP.NET Core
- Configurations
- Middleware
- IActionResult
- Intro to Microservices
- Advantages and disadvantages

🕒 Monday, December 21, 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, December 23, 2020

Project Architecture Discussion

🕒 Thursday, December 24, 2020

Project Architecture Review

🕒 Monday, December 28, 2020

Technical Setup

🕒 Tuesday, December 29, 2020

New Year Dinner

🕒 Monday, Jan 11, 2021

Intro to JS

- Fundamentals (Variables, Data Types, Functions, Loops)
- Basic Objects
- Prototypes
- Inheritance
- Classes
- Event Loop

🕒 Wednesday, January 13, 2021

Generics

- Covariance
- Contravariance
- Invariance
- Generic constraints

🕒 Thursday, January 14, 2021

React.js - Part 1

- Intro to React
- Setup and Tools
- JSX
- Element rendering

🕒 Monday, January 18, 2021

React.js - Part 2

- Components
- Props
- State and Lifecycle



🕒 Wednesday, January 20, 2021

Collections

- IEnumerable/IEnumerator
- Yield
- ICollection
- IList
- KeyedCollection

🕒 Thursday, January 21, 2021

React.js - Part 3

- Events

- Conditional formatting
- Lists and Keys

🕒 Monday, January 25, 2021

LINQ

- Func and Actions
- LINQ to Object
- LINQ to SQL
- Anonymous and dynamic types

🕒 Wednesday, January 27, 2021

React.js - Part 4

- Forms
- Lifting State Up
- Composition vs Inheritance

🕒 Monday, February 1, 2021

Expressions - Part 1

- Interaction

🕒 Wednesday, February 3, 2021

Expressions - Part 2

- Paradigms

🕒 Thursday, February 4, 2021

React.js - Part 5

- Hooks
- Thinking in React
- Intro to React Router

🕒 Monday, February 8, 2021

React.js - Part 6



- Intro to Redux
- Intro to Bootstrap

🕒 Wednesday, February 10, 2021

Sync/Async Programming - Part 1

- Threads (Create, Join etc.)

🕒 Thursday, February 11, 2021

Sync/Async Programming - Part 2

- ThreadPool
- Tasks
- Parallel



🕒 Monday, February 15, 2021

Sync/Async Programming - Part 3

- async/await

🕒 Tuesday, February 16, 2021

Data Structures (Under the hood) - Part 1

- Array
- List
- Linked List
- Stack
- Queue

🕒 Thursday, February 18, 2021

Data Structures (Under the hood) - Part 2

- HashSet
- Dictionary
- SortedDictionary

🕒 Monday, February 22, 2021

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