Titan Camp Course Structure

ServiceTitan

🕓 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

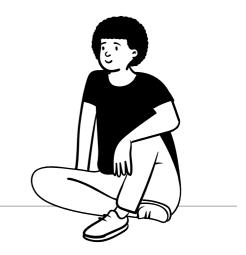
Technical Setup

🕓 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
- C 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



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🕓 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
- C 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
- U Tuesday, February 16, 2021

Data Structures (Under the hood) - Part 1

- Array
- List
- Linked List
- Stack
- Queue
- C 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