AWS

Docker

ML AI

Microservice

Puzzle

Coding Problems

DS and Algos

Design Patterns - > ~~SOLID,Singleton~~,Façade,~~Factory,Abstract~~ ~~Factory~~,Repository,~~Dispose~~,Iterator,~~Observer~~,~~Unit of Work~~,Decorator

Html and CSS

VanillaJS

Object oriented JS

Jquery

NodeJS

~~React JS~~

Design Patterns

~~Build Tools – Grunt,Webpack~~

~~Minification and Linting~~

Unit Testing (Jasmine,Mocha,Chai,Istanbul)

~~MongoDB~~

FunctionScope and block scope

locals, implied globals, the window object, function-scope, declaration hoisting, and scope chains. Furthermore, I'd love to hear about [[DontDelete]], hoisting precedence (parameters vs var vs function), and undefined.

Basic JS programmming

Scope of variable

What is Associative Array? How do we use it?

OOPS JS

Difference between Classic Inheritance and Prototypical Inheritance

What is difference between private variable, public variable and static variable? How we achieve this in JS?

How to add/remove properties to object in run time?

How to achieve inheritance ?

How to extend built-in objects?

Why extending array is bad idea?

DOM and JS

Difference between browser detection and feature detection

DOM Event Propagation

Event Delegation

Event bubbling V/s Event Capturing

Misc

Event vs callback approach

Graceful Degradation V/s Progressive Enhancement

Global Object - Window ,parseInt(),undefined,NaN,hasOwnProperty(),Number,Boolean,String

Array- obeject

Event loop

Scoping

Middlewares

Concurrency

Exec spawn,process

Database -

~~Questions about view~~, ~~functions and stored procedure. Difference between function and stored procedure~~,~~Indexes~~, ~~clustered and non-clustered, joins, cross join, CTE~~, partitioning , ~~query optimization process (estimation vs actual plan), nested query, co-related query~~, table hint, index hint, ~~Database Tables~~

~~Indexes(Clustered , Non clustered) ,Views , Stored procs, Triggers ,Writing Queries ,Cursors ,Joins ,Transactions ,SQL SERVER - Connection pooling, Joins,~~ ~~Department wise Max/Top 2 Sal Type, Index (Size Restriction, max Length, Consideration like where to apply, when to apply, internal functionality of index.), Include Keyword with index~~, ~~Co-related & nested query, CTE, Cross Apply Join,~~ Execution Plan vs Estimated Plan~~, Different ways to execute query, Dynamic stored procedure (Advantage and limitation), Stored Proc vs Function, Adv. of stored procedure, Transactions~~, ~~Cursors(Alternatives of cursors),~~ ~~Why use Views, Indexed Views~~, ~~Temp table vs table variable (Advantage and limitation),~~ ~~clustered index on another column instead of primary key~~

OOPS -

~~Overloading, Overriding, virtual functions, Interface and Abstract class, Polymorphic, Run time polymorphic, inheritance~~

Dot net -

~~Garbage collector (complete process), dispose and finalize, generics, hash table and dictionaries, threading (sync vs async, diff. ways of async call), thread synchronization (lock ,semaphore, auto reset events, manual reset events, monitor, mutex), abstract vs interface, delegates vs events, linq, anonymous methods, lambda exp., value types vs ref types, ref keyword, web service, wcf~~

~~design patterns -~~

~~Static vs singleton, facade,observer, factory,ioc,di, mvc~~,mvp

~~OOPS/ C# Language Intermediates OOPS Concepts (Polymorphism, Encapsulation, Abstraction, Inheritence)~~

~~Relationship between classes (Intermediate UML concepts)~~

~~Abstract Class/Interface~~

~~Dispose Pattern (Idisposable and Finalize usage best practices)~~

~~Event/Delegate~~

~~Custom Attributes/Reflection~~

~~Threading~~

~~Collection Classes~~

~~Exception handling~~

~~Serialization~~

~~Core .Net .Net Framework Intermediates (E.g., CLR, CLS, CTS, Managed code, MSIL)~~

~~Assembly - Shared/Private~~

Interop - CCW, RCW

~~AppDomains~~

~~Satellite assemblies~~

~~Garbage Collection~~

Code Access Security

Remoting MarshalByRef / MarshalByVal, CAO, SAO, Object lifetime management

Invoking Remote Objects, Proxies, Memory Management for proxy objects

~~ADO.net Connection, Command~~

~~DataAdapter~~

~~DataTable, DataSet, DataReader, DataView~~

Transaction

XML XML Intermediates

DTD, Schema Parsers (SAX, DOM)

XMLDocument Object

XMLReader, XMLWriter

Windows Forms User Controls

Custom Controls

Tracing, Debugging

~~"Web Services" Understanding SOAP~~

~~WSDL, UDDI~~

~~Web Methods and Proxies~~

Authentication/WSE

Deployment Tracing, Debugging

Web Farm Scenario

~~Configuration files - machine.config, web.config~~

"~~Web Application~~

~~(ASP.Net)" Repeater/DataList/Datagird control~~

~~Caching~~

~~Validation Controls~~

~~HTTPHandlers/HTTPModules, HTTP Pipeline~~

~~Request, Response, ASP.Net Page Life cycle~~

IIS5 and IIS6 Architecture

~~User Controls, Custom Controls~~

~~State management~~

~~ASP.Net Authentication/Authorization~~

~~AJAX (1.1 & 2.0)~~

ASP.Net Performance Monitoring

~~C# - Garbage Collection(Complete Process, Dispose, Finalize, Destructor), Threading, locks,~~ ~~delegation, reflection and data tables~~, ~~Inheritance(overriding and new), Method Hiding and Data Hiding, Association Aggregatio and Compoisition in OOPS and C#, Interface and Abstract Class(Difference, When to use which),~~ ~~IComparable and IComparer (Diff and usage)~~, ~~Value Type vs Ref Type with ex., Thread Synchronization(Monitor, Lock, Semaphore, Mutex, AutoResetEvent & ManualResetEvent)~~, ~~IQueryable vs IEnumerable, IEnumerator vs IEnumberable, IEnumerable vs IList~~, ~~Anonymous Methods and Anonymous Object, Collection vs Generics~~, ~~Deep Copy vs Shallow Copy~~,

~~generics(system defined and user defined, type restriction), collections and compare the diff data structures, const vs readonly~~, ~~Delegate vs Events~~, Why Heap if stack is available, ~~Class vs Struct, .Net Framework 4.0 vs 4.5,~~ ~~How to measure time a method took to execute, HashTable vs Dictionary, What's new in C#?,~~ ~~IDisposable, object pool~~, ~~Why to use dispose method, why static class? Why c# doesn't support multiple inheritance? left join in linq, group by in linq, lazy loading and DeferredExecution in Linq, Single vs First in Linq~~, ~~Thread Pool,~~ ~~Action vs Func, situation where used delegates and events~~

~~Pre requisites for Observer, factory, why and where use factory, singleton, abstract factory and DI, IOC and ways to implement it, MVC and why MVC,~~

~~ASP.Net - ViewState, State Management, APP Domain vs process, Data caching, What happens when a request hits IIS~~

~~MVC - Action Filters, Routing,~~ ~~Why Attribute based routing, MVC 4 vs MVC 5 vs MVC 6, Partial Views~~, ~~ViewBag ViewData and TempData, Caching in MVC and Web API~~, ~~Session Handling in MVC~~ ~~and Web API~~, ~~MVC Request Life~~ Cycle, Web API Request Life Cycle, ~~Return Types in MVC~~ ~~and Web API, HTML Helper Extension Methods~~, ~~Create checkbox list in MVC~~, ~~Authentication and Authorization in MVC~~ ~~and Web API,~~ , Upload image in MVC, ~~custom templates~~, ~~editor vs default template rendering in views~~, ~~HTML Helper Method(situation where used)~~, ~~global filters, custom filters, master pages in mvc~~, code first vs database first, ~~Anti Forgery, xss~~

~~WCF - wcf rest vs web api rest (especially security),~~ ~~Transaction using wcf for two different services~~, ~~message based security and transport based security~~, ~~wcf trhottling, custom authentication and authorization~~, SOA, SOAP vs HTTP,