

.NET - Full Stack v2.1

	MON	TUE	WED	THU	FRI	ENVIRONMENT
Week 1 Core C#	Setup - Code Editor Setup - Version Control SetupNET SDK INET PlatformNET Standard, ASP.NET, XAMARIN, UWP Workspace - Windows First Program - Overview Program Structure - Keywords Source Control Management Architectural Components Week 1 Hackerrank Activity	.NET Solution - Namespace .NET Solution - Project .NET Solution - Assembly .NET Platform - Runtime Collections Garbage Collector Type System Compilation Process - CLR	 Type - Conversion Modifier - Abstract Modifier - Const Modifier - Override Modifier - Readonly Modifier - Static Modifier - Virtual Object-Oriented Programming Access Modifiers Casting 	Code Structure - Unit Testing Collection - Generic Type - Action Type - Function Type - Delegate Type - Event Serialization Exception Handling Test Driven Development	Runtime - Debugging Runtime - Breakpoint Design Pattern - Singleton Design Pattern - Factory Semantic Code - Comments Semantic Code - XML Comments Sollid. Logging Logging	 xUnit [2.x] Visual Studio Code [1.x] Git [2.x] Serilog [2.x] .NET Core [3.x]
Week 2 SQL	Data Access - ORM Data Access - Data First Approach Data Model - Entity Data Model - Relationship Data Model - Seeding Data Query - Eager Loading Data Query - Lazy Loading Quality Control Audit Technical Assessment Week 2 Hackerrank Activity	Setup - Data Editor Data Structure - Normalization Data Structure - Multiplicity Data Structure - DML Data Structure - DDL Design Pattern - Repository Type - LINQ Data Structure - Check Constraint Data Structure - Default Constraint Data Structure - Null Constraint Data Structure - Type Constraint	Data Aggregation Average Function Data Aggregation Count Function Data Aggregation Sum Function Data Operation - Inner Join Data Operation - Left Outer Join Data Operation - Right Outer Join Data Operation - Full Join Data Operation - Cross Join	Data Operation - Union Data Operation - Union All Data Operation - Intersect Data Operation - Except Data Operation - Common Table Expression Subquery Data Operation - From Subquery Data Operation - From Subquery Data Operation - Tringger Data Query - For Trigger Data Query - After Trigger Data Query - After Trigger	Data Query - View Data Query - Scalar Function Data Query - Tabular Function Data Query - Stored Procedure Transaction - ACID Transaction - Commit Transaction - Rollback Isolation Level - Read Uncommitted Isolation Level - Read Committed Isolation Level - Repeatable Read Isolation Level - Repeatable Read Isolation Level - Repeatable Read Isolation Level - Repeatable Read	Entity Framework Core [3.x] Azure Data Studio [1.x] SQL Server Management Stud [2019] Transact-SQL [201 Docker [2.x]

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Week 3 MVC	Project Day - PO Quality Control Audit Technical Assessment Week 3 Day 1 Hackerrank Activity	HTML Fundamentals (Accessibility, Attributes, Elements, Metadata, Semantic Web) CSS Fundamentals (Box Model, Responsive Web Design, Specificity, Rule Sets)	Project Showcase - PO DOM (Structure, Events, Selectors) Request Lifecycle (DNS, Response, Request) MVC Concepts (Controller, Model, View) Data Access - Code First Approach	Model (Binding, Data Annotations, ViewModel) View (Partial-Views, Strongly-Typed, Weakly-Typed) Controller (Actions, HTTP Verbs, Request Parameters) Design Pattern - Dependency Injection	Helpers (Custom, HTML, Tag) Filters (Action, Authorization, Custom, Exception, Response) Routing (Global, Controller, Action) Test Driven Development (Mock, Stub, Integration) Week 3 Day 5 Hackerrank Activity	 ASP.NET Core MVC [3.x] Entity Framework Core [3.x] Visual Studio Code [1.x] Visual Studio IDE [2019]
Week 4 DevOps	Software Development Lifecycle (Waterfall, Iteration, V-Model, Agile) Source Control Management (Branch, DVCS, Merge, Pull Request, Documentation, License, Changelog) Quality Control Audit Technical Assessment Week 4 Hackerrank Activity	Docker Fundamentals (Virtualization, Containerization, Packaging) Docker and Docker Compose (Configuration, Compose, Ignore, Image, Container, Registry)	DevOps Fundamentals (Cycle Time, Feedback Loop, Validation) DevOps Tooling (CI/CD, Pipeline, Build Definition, Static Code Analysis, Release Definition)	Code Analysis (Coverage, Review, Technical Debt, Duplication, Vulnerability, Duplication, Security) Code Quality (Test Runner, Unit Testing, Integration Testing)	Cloud Computing Fundamentals (Cost, Scale, Security) Cloud Computing Types (IaaS, PaaS, SaaS, CaaS) Cloud Computing Models (Hybrid, Private, Public)	 Docker [19.x] Azure [hosted] Azure DevOps [hosted] SonarCloud [hosted]
Week 5 SOA	Project Day - P1 Quality Control Audit Technical Assessment • Week 5 Day 1 Hackerrank Activity	Project Showcase - P1 SOA Fundamentals (Patterns, Principles) SOAP Fundamentals (ABC, Behaviors, Contracts, WSDL)	REST Fundamentals (Client- Server, Stateless, Cache, Uniform Interface, Layer, On Demand) REST Tooling (CORS, CSRF, HttpClient)	Security and Identity (Authentication, Authorization, JWT, Claims, Secret Management, Data Protection, GDPR, Provider, IDaaS) Code Structure - Asynchronous Programming	JavaScript (Datatypes, DOM, Functions, Prototypes, Scopes) Ajax Fundamentals (Fetch API, HTTP Verbs, XmlHttpRequest) Event Handlers (Listeners, Propagation) Week 5 Day 5 Hackerrank Activity	ASP.NET WCF ASP.NET Core Web API [3.x] Okta [hosted]

	MON	TUE	WED	THU	FRI	ENVIRONMENT
Week ó Angular	TypeScript Fundamentals (Class, Interface, Datatypes) Imports and Exports Compilation and Transpilation Quality Control Audit Technical Assessment Week 6 Hackerrank Activity	 Angular Fundamentals (Command Line, Workspace) Arhcitecture (Modules, Components, Templates) 	 Modeling (Decorators, Directives, Forms, Data Binding) Dependency Injection (Injectables, Services, HttpClient) 	Bootstrapping (Pipes, Filters, Events) Routing (Route Handlers, Navigation)	Reactive Programming (Promises, Observables) Testing (Unit, Endto-End, Stubs)	Angular [8.x]JavaScript [ES2015]TypeScript [3.x]
Week 7 MSA	Project Day - P2 Quality Control Audit Technical Assessment • Assign Week 7 Group Hackerrank Research Assignment	Project Showcase - P2 • Microservice Fundamentals (Service Oriented, State Independence, Consistency, Availability, Encapsulation)	Kubernetes Fundamentals (Portability, Scalability, Extensibility) Kubernetes Architecture (Cluster, Node, Pod, Container)	Kubernetes Tooling (Kubectl, Minikube, Docker, YAML, AKS) State Management (Stateful, Stateless) Group Discussion for Hackerrank Assignment	Security (Secret Management, Networ k Group, Cluster Upgrade) Scalability and Failover (Ingress, Autoscaling) Presentation of Hackerrank Assignment	 Azure AKS [hosted] Docker [19.x] Kubernetes [1.x]
Week 8 Portfolio	Portfolio Writing Quality Control Audit Technical Assessment Panel Orientation Individual Hackerrank Assessment	Project 3 Portfolio Writing	Project 3 Portfolio Writing	Project 3 Portfolio Writing	Project 3 Portfolio Writing	
Week 9 Panels	Project 3 Panel Interviews - Day 1	Project 3 Panel Interviews - Day 2	Project 3 Panel Interviews - Day 3	Project 3 Panel Interviews - Day 4	Project 3 Panel Interviews - Day 5	
Week 10 Project Showcase	Project 3 Panel Interviews - Day 6	Project 3 Panel Interviews - Day 7	Project 3 Panel Interviews - Day 8	Project Showcase - P3	Promotion Ceremony	

PROJECT	TECHNOLOGIES			
Project 3	Agile/Scrum, C#, SQL, Angular, Web API, Azure, Active Directory, DevOps, Entity Framework			
Project Day - PO	C#, SQL			
Project Day - P1	Agile/Scrum, C#, SQL, Entity Framework, ASP.NET MVC, Serilog			
Project Day - P2	Agile/Scrum, C#, SQL, Entity Framework, Angular, Web API, DevOps			



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