C# ASP.NET Developer Roadmap
Basics
☐ ☐ C# Fundamentals
— Data Types and Variables
— Control Flow (Loops, Conditions)
— Functions and Methods
— Object-Oriented Programming (OOP)
— Collections (List, Dictionary, etc.)
— Exception Handling
\NET Runtime and CLR
— Garbage Collection
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── ○ Version Control
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— Branching and Merging
— GitHub / GitLab
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— Package Managers
— 🔵 NuGet
 Web Development with ASP.NET Core I → ASP.NET Core Basics I → Middleware & Request Pipeline I → Routing & Endpoints I → Dependency Injection I → Controllers & Actions I → Model Binding & Validation I → Razor Pages & MVC I → Views, Partial Views, Layouts I → View Components I → Tag Helpers & View Models I → Blazor (Optional) I → Blazor Server vs WebAssembly I → Components & State Management
Microservices Architecture

 Databases & ORM SQL Server, PostgreSQL, MySQL Entity Framework Core Code First vs Database First Migrations & Seeding Querying Data with LINQ Transactions Performance Optimization
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 ├─ ○ Performance Optimization ├─ ○ Caching (MemoryCache, Redis) ├─ ○ Async/Await & Multithreading ├─ ○ Connection Pooling ├─ ○ Minimizing Memory Leaks
 ├─ Cloud & Deployment ├─ Hosting (Azure, AWS, Google Cloud) ├─ CI/CD Pipelines (GitHub Actions, Azure DevOps) ├─ Docker & Kubernetes ├─ Serverless with Azure Functions
 ├── ○ Security Best Practices ├── ○ Data Protection (Encryption, Hashing) ├── ○ Secure APIs (Rate Limiting, CORS) ├── ○ OWASP Top 10 Threats
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 ├─ Soft Skills ├─ Communication & Documentation ├─ Code Reviews & Pair Programming ├─ Debugging & Problem-Solving

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