

Refresher On .NET And Software Design Fundamentals For C

Tools and Skills for .NET 8

Elevate your career by mastering key .NET tools and skills, including debugging, source code management, testing, cloud-native development, intelligent apps and more. Purchase of the print or Kindle book includes a free PDF eBook. Key Features Coverage of key .NET tools and skills including refactoring, source code management, debugging, memory troubleshooting, and more Practical guidance on using code editors effectively, implementing best practices, and protecting data Explore cutting-edge techniques like building intelligent apps, cloud native development with .NET Aspire, and Docker containerization Book Description Unlock the full potential of .NET development with Tools and Skills for .NET 8. Dive into source code management using Git and learn how to navigate projects while ensuring version control. Discover advanced debugging techniques and troubleshooting strategies to identify and resolve issues, and gain practical insights on documenting your code, APIs, and services, fostering project clarity and maintainability. Delve into the world of cryptography, ensuring confidentiality and integrity throughout your development lifecycle. Elevate your skills as you explore cutting-edge topics such as building intelligent apps using custom LLM-based chat services, mastering dependency injection, optimizing performance through testing, and Docker containerization. Harness the power of cloud-native development with .NET Aspire, unlocking the benefits of modern cloud platforms. With guidance on software architecture best practices, this book empowers you to build robust, scalable and maintainable applications. Advance your career with invaluable insights on job readiness and interview preparation, positioning yourself as a top-tier candidate in today's competitive job market. Whether you're a seasoned .NET professional or an aspiring developer looking to enhance your skills, this book is your ultimate companion on the journey to .NET mastery. What you will learn Make the most of code editor tools for efficient development Learn advanced debugging techniques and troubleshooting strategies Understand how to protect data and applications using cryptography Build a custom LLM-based chat service Discover how to master dependency injection Optimize performance through benchmarking and testing Delve into cloud-native development using .NET Aspire Advance your career with advice on job readiness and interviews Who this book is for .NET professionals seeking to enhance their expertise, as well as aspiring developers aiming to advance their careers in the field. This book caters to individuals eager to master essential .NET tools, refine their development practices, explore advanced techniques and cutting-edge tools, and prepare themselves for job opportunities and interviews in the competitive landscape of .NET development

C# 13 and .NET 9 – Modern Cross-Platform Development Fundamentals , Ninth Edition

An accessible guide for beginner-to-intermediate programmers to the concepts, real-world applications, and latest features of C# 13 and .NET 9, with hands-on exercises using Visual Studio and Visual Studio Code Key Features Explore the newest additions to C# 13, the .NET 9 class libraries, and Entity Framework Core 9 Build professional websites and services with ASP.NET Core 9 and Blazor Enhance your skills with step-by-step code examples and best practices tips Book Description This Packt bestseller continues to be the definitive guide to modern cross-platform development. The 9th edition of C# 13 and .NET 9 – Modern Cross-Platform Development Fundamentals has been updated to cover the latest features and improvements in .NET 9 and C# 13. You'll start by mastering object-oriented programming, learning how to write, test, and debug functions, and implementing interfaces. You'll then dive into .NET APIs for data management, filesystem operations, and serialization. This latest edition integrates .NET 9 enhancements into its examples:

faster exceptions and new LINQ methods. New ASP.NET Core 9 features include optimized static assets, built-in OpenAPI document generation, and the HybridCache. Practical examples, such as building websites and services with ASP.NET Core, have been refreshed to utilize the latest .NET 9 features. The book also introduces Blazor, with its new unified hosting model for unparalleled code reusability. With these updates, you'll learn how to build robust applications and services efficiently and effectively. By the end of this book, you'll have the knowledge and confidence to create professional and high-performance web applications using the latest technologies in C# 13 and .NET 9. What you will learn Discover the new features of .NET 9, including more flexible params and new LINQ like CountBy and Index Leverage the new ASP.NET Core 9 features for optimized static assets, OpenAPI document generation, and HybridCache Utilize the native AOT publish capability for faster startup and reduced memory footprint Build rich web user interface experiences using Blazor in ASP.NET Core 9 Integrate and update databases in your applications using Entity Framework Core 9 models Query and manipulate data using LINQ Build powerful services using Minimal APIs Who this book is for This book is aimed at beginner to intermediate-level C# and .NET developers. While prior exposure to C# or .NET is not a prerequisite, a general understanding of programming concepts will be beneficial. If you want to learn more technologies for building modern .NET projects like gRPC, SignalR, and .NET MAUI, read Mark's Apps and Services with .NET 8 book next; and if you aim to become a professional .NET developer quickly or mainly work on team projects, read his other book, Tools and Skills for .NET 8.

Software Architecture with C# 12 and .NET 8

A book for the aspiring .NET software architect – design scalable and high-performance enterprise solutions using the latest features of C# 12 and .NET 8 Purchase of the print or Kindle book includes a free PDF eBook Key Features Get introduced to software architecture fundamentals and begin applying them in .NET Explore the main technologies used by software architects and choose the best ones for your needs Master new developments in .NET with the help of a practical case study that looks at software architecture for a travel agency Book DescriptionSoftware Architecture with C# 12 and .NET 8 puts high-level design theory to work in a .NET context, teaching you the key skills, technologies, and best practices required to become an effective .NET software architect. This fourth edition puts emphasis on a case study that will bring your skills to life. You'll learn how to choose between different architectures and technologies at each level of the stack. You'll take an even closer look at Blazor and explore OpenTelemetry for observability, as well as a more practical dive into preparing .NET microservices for Kubernetes integration. Divided into three parts, this book starts with the fundamentals of software architecture, covering C# best practices, software domains, design patterns, DevOps principles for CI/CD, and more. The second part focuses on the technologies, from choosing data storage in the cloud to implementing frontend microservices and working with Serverless. You'll learn about the main communication technologies used in microservices, such as REST API, gRPC, Azure Service Bus, and RabbitMQ. The final part takes you through a real-world case study where you'll create software architecture for a travel agency. By the end of this book, you will be able to transform user requirements into technical needs and deliver highly scalable enterprise software architectures. What you will learn Program and maintain Azure DevOps and explore GitHub Projects Manage software requirements to design functional and non-functional needs Apply architectural approaches such as layered architecture and domain-driven design Make effective choices between cloud-based and data storage solutions Implement resilient frontend microservices, worker microservices, and distributed transactions Understand when to use test-driven development (TDD) and alternative approaches Choose the best option for cloud development, from IaaS to Serverless Who this book is for This book is for engineers and senior software developers aspiring to become architects or looking to build enterprise applications with the .NET stack. Basic familiarity with C# and .NET is required to get the most out of this software architecture book.

Hands-On Design Patterns with C# and .NET Core

Apply design patterns to solve problems in software architecture and programming using C# 7.x and .NET Core 2 Key FeaturesEnhance your programming skills by implementing efficient design patterns for C# and

.NETExplore design patterns for functional and reactive programming to build robust and scalable applicationsDiscover how to work effectively with microservice and serverless architecturesBook Description Design patterns are essentially reusable solutions to common programming problems. When used correctly, they meet crucial software requirements with ease and reduce costs. This book will uncover effective ways to use design patterns and demonstrate their implementation with executable code specific to both C# and .NET Core. Hands-On Design Patterns with C# and .NET Core begins with an overview of object-oriented programming (OOP) and SOLID principles. It provides an in-depth explanation of the Gang of Four (GoF) design patterns such as creational, structural, and behavioral. The book then takes you through functional, reactive, and concurrent patterns, helping you write better code with streams, threads, and coroutines. Toward the end of the book, you'll learn about the latest trends in architecture, exploring design patterns for microservices, serverless, and cloud native applications. You'll even understand the considerations that need to be taken into account when choosing between different architectures such as microservices and MVC. By the end of the book, you will be able to write efficient and clear code and be comfortable working on scalable and maintainable projects of any size. What you will learnMake your code more flexible by applying SOLID principlesFollow the Test-driven development (TDD) approach in your .NET Core projectsGet to grips with efficient database migration, data persistence, and testing techniquesConvert a console application to a web application using the right MVPWrite asynchronous, multithreaded, and parallel codeImplement MVVM and work with RxJS and AngularJS to deal with changes in databasesExplore the features of microservices, serverless programming, and cloud computingWho this book is for If you have a basic understanding of C# and the .NET Core framework, this book will help you write code that is easy to reuse and maintain with the help of proven design patterns that you can implement in your code.

Managed C++ and .NET Development

This book answers the question, "Do you need to learn C# or VB .NET to develop in .NET?" You'll learn that the answer is, in fact, "no"—at least until you're good and ready. With Managed C++ and .NET Development, your hard-earned skills as an established C++ developer or beginner won't be wasted. Microsoft touts .NET as language-neutral, and this book proves it, at least in the area of C++. Managed C++ and .NET Development is truly a .NET book applying C++ as its development language—not another C++ syntax book that happens to cover .NET. There's no other book out there like this one. It's written for the C++ programmer who wants to write new .NET programs and not just migrate existing ones. To this end, author Stephen R. G. Fraser covers topics such as collections, multithreading, I/O, XML, ADO.NET, GDI+, Windows Forms (using the new GUI design tool introduced in Visual Studio .NET 2003), Web services, and Web Forms, focusing strictly on code development.

Fundamentals of Multicore Software Development

With multicore processors now in every computer, server, and embedded device, the need for cost-effective, reliable parallel software has never been greater. By explaining key aspects of multicore programming, Fundamentals of Multicore Software Development helps software engineers understand parallel programming and master the multicore challenge.

Professional C# 2012 and .NET 4.5

Intermediate to advanced technique coverage, updated for C# 2012 and .NET 4.5 This guide is geared towards experienced programmers looking to update and enhance their skills in writing Windows applications, web apps, and Metro apps with C# and .NET 4.5. Packed with information about intermediate and advanced features, this book includes everything professional developers need to know about C# and putting it to work. Covers challenging .NET features including Language Integrated Query (LINQ), LINQ to SQL, LINQ to XML, WCF, WPF, Workflow, and Generics Puts the new Async keyword to work and features refreshers on .NET architecture, objects, types, inheritance, arrays, operators, casts, delegates,

events, strings, regular expressions, collections, and memory management Explores new options and interfaces presented by Windows 8 development, WinRT, and Metro style apps Includes traditional Windows forms programming, ASP.NET web programming with C#, and working in Visual Studio 2012 with C# Professional C# 2012 and .NET 4.5 is a comprehensive guide for experienced programmers wanting to maximize these technologies.

Application Development Using C# and .NET

The practical guide to C# .NET development for experienced programmers. Running case study covers the entire .NET development process. .NET attributes, collections, threading, security, versioning, remoting, and more.

C#

Are you searching for a coding language that will work for you? Do you want to create your own website of desktop applications? C# is the right choice for you. When it comes to programming and choosing a coding language there are so many on the market that the beginner is faced with a bewildering choice and it can appear that they all do much the same job. But if creating visually elegant and functional applications is what you want, then C# is the one for you. Now, with C#: The Beginner's Ultimate Guide to Learn C# Programming Step by Step, even a complete beginner can start to understand and develop programs, with help through chapters on: • What C# is • An overview of the features • Program structure and basic syntax • Working with variables • The conditional statements • C# methods • 7 data types supported by C# • Accurate use of operators and conditional statements • Proper use of arrays, structures, and encapsulations • And lots more... With the information contained in this book you could be on your way to learning how C# can develop and expand on your programming knowledge and lead you to exciting new discoveries in this fascinating subject. Get a copy of C#: The Beginner's Ultimate Guide to Learn C# Programming Step by Step now and begin your journey to a better and simpler world of programming.

Pro Visual C++/CLI and the .NET 3.5 Platform

Pro Visual C++/CLI and the .NET 3.5 Platform is about writing .NET applications using C++/CLI. While readers are learning the ins and outs of .NET application development, they will also be learning the syntax of C++, both old and new to .NET. Readers will also gain a good understanding of the .NET architecture. This is truly a .NET book applying C++ as its development language—not another C++ syntax book that happens to cover .NET.

C# 6 and .NET Core 1.0: Modern Cross-Platform Development

Create powerful cross-platform applications using C# 6, .NET Core 1.0, ASP.NET Core 1.0, and Visual Studio 2015 About This Book Build modern, cross-platform applications with .NET Core 1.0 Get up-to-speed with C#, and up-to-date with all the latest features of C# 6 Start creating professional web applications with ASP.NET Core 1.0 Who This Book Is For Are you struggling to get started with C#? Or maybe you're interested in the potential of the new cross-platform features that .NET Core can offer? If so, C# 6 and .NET Core 1.0 is the book for you. While you don't need to know any of the latest features of C# or .NET to get started, it would be beneficial if you have some programming experience. What You Will Learn Build cross-platform applications using C# 6 and .NET Core 1.0 Explore ASP.NET Core 1.0 and learn how to create professional web applications Improve your application's performance using multitasking Use Entity Framework Core 1.0 and learn how to build Code-First databases Master object-oriented programming with C# to increase code reuse and efficiency Familiarize yourself with cross-device app development using the Universal Windows Platform and XAML Query and manipulate data using LINQ Protect your data by using encryption and hashing In Detail With the release of .NET Core 1.0, you can now create applications for Mac OS X and Linux, as well as Windows, using the development tools you know and love. C# 6 and .NET Core

1.0 has been divided into three high-impact sections to help start putting these new features to work. First, we'll run you through the basics of C#, as well as object-orient programming, before taking a quick tour through the latest features of C# 6 such as string interpolation for easier variable value output, exception filtering, and how to perform static class imports. We'll also cover both the full-feature, mature .NET Framework and the new, cross-platform .NET Core. After quickly taking you through C# and how .NET works, we'll dive into the internals of the .NET class libraries, covering topics such as performance, monitoring, debugging, internationalization, serialization, and encryption. We'll look at Entity Framework Core 1.0 and how to develop Code-First entity data models, as well as how to use LINQ to query and manipulate that data. The final section will demonstrate the major types of applications that you can build and deploy cross-device and cross-platform. In this section, we'll cover Universal Windows Platform (UWP) apps, web applications, and web services. Lastly, we'll help you build a complete application that can be hosted on all of today's most popular platforms, including Linux and Docker. By the end of the book, you'll be armed with all the knowledge you need to build modern, cross-platform applications using C# and .NET Core.

Style and approach This book takes a step-by-step approach and is filled with exciting projects and fascinating theory. It uses three high-impact sections to equip you with all the tools you'll need to build modern, cross-platform applications using C# and .NET Core.

Entwurfsmuster

The BlackBerry smartphone is today's #1 mobile platform for the enterprise and also a huge hit with consumers. Until now, it's been difficult for programmers to find everything they need to begin developing new applications for BlackBerry devices. BlackBerry Development Fundamentals is the solution: the first single-source guide to all aspects of development for the BlackBerry platform. This book thoroughly reviews the BlackBerry's unique capabilities and limitations, helps you optimize your upfront design choices, and covers native rich-client applications and Web-based mobile applications for both business and consumer environments. In addition, it is an excellent study guide for the BlackBerry Certified Application Developer exam (BCX-810). Coverage includes

- The "hows," "whys," and best practices of BlackBerry development
- Planning for and managing the BlackBerry platform's restrictions
- Selecting the correct development platform for your BlackBerry applications
- Describing the different paths any application can take to get to the data it needs
- Explaining the capabilities provided by the BlackBerry Mobile Data System (MDS)
- Pushing application data to both enterprise and consumer BlackBerry devices using MDS, Web Signals, and the BlackBerry Push APIs
- Dealing with both the special capabilities and limitations of the BlackBerry browser
- Building, testing, and debugging BlackBerry browser applications
- Understanding the tools available to Java developers
- Using Research In Motion's Java development tools to build, test, and debug BlackBerry Java applications
- Deploying BlackBerry Java applications

BlackBerry Development Fundamentals

What would you do if your IT job was no longer performed in your country? Your survival does not lie in limiting global collaborative engineering. IT workers will survive and prosper because of their ability to innovate, to quickly learn and change directions, and to evolve from Information Technology into Distributed Knowledge Marketplace. You have no choice but to be pro-active, learn to stay current, even run ahead of the game. Integration-Ready Architecture and Design bridges the gap for a new generation of wired and wireless software technologies and teaches a set of skills that are demanded by fast moving software evolution. This up-to-date textbook integrates theory and practice, going from foundations and concepts to specific applications. Through deep insights into almost all areas of modern CIS and IT, Zhuk provides an entry into the new world of integrated knowledge and software engineering. Readers will learn the 'what's, why's, and how's' on: J2EE, J2ME, .NET, JSAPI, JMS, JMF, SALT, VoiceXML, WAP, 802.11, CDNA, GPRS, CycL, XML, and multiple XML-based technologies including RDF, DAML, SOAP, UDDI, and WDSL. Students, architects, designers, coders, and even management benefit from innovative ideas and detailed examples for building multi-dimensional worlds of enterprise applications and creating distributed knowledge marketplace.

Integration-Ready Architecture and Design

Learn to develop professional applications with VB and the .NET platform in a unique building block approach. This guide also presents the basic concepts of the .NET framework, which is the common language.

Dr. Dobb's Journal of Software Tools for the Professional Programmer

Give your students a classic, well-rounded introduction to computer concepts with a modern twist! Known for its readability and breadth of topics covered, Understanding Computers: Today and Tomorrow will ensure that students have the comprehensive, current knowledge of computer concepts and issues needed to succeed in our technocentric society. This 11th Edition offers exciting new features and updates to make its content more approachable and meaningful to students.

Application Development Using Visual Basic and .NET

From bestselling author Liberty comes an entry-level book that presents this young programming language and the basics of object-oriented .NET programming.

Understanding Computers

Modellgetriebene Entwicklung befasst sich mit der Erstellung kompletter Softwaresysteme aus Modellen. Das Buch stellt einen praxisorientierten Leitfaden für modellgetriebene Entwicklung dar und richtet sich dabei an Architekten, Entwickler sowie technische Projektleiter. Obwohl die Model-Driven Architecture (MDA) der OMG einen hohen Stellenwert bei den Betrachtungen einnimmt, betrachtet das Buch auch allgemeine Aspekte modellgetriebener Entwicklung. Das Buch ist dreigeteilt in eine Einführung, einen praktischen Leitfaden mit einem ausführlichen Fallbeispiel sowie zusätzliche Kapitel, die bestimmte Aspekte der Thematik genauer beleuchten.

Learning C#

For more than 25 years, this guide has been the trusted source of information on thousands of educational courses offered by business, labor unions, schools, training suppliers, professional and voluntary associations, and government agencies. These courses provide academic credit to students for learning acquired at such organizations as AT&T, Citigroup, Delta Air Lines, General Motors University, NETg, and Walt Disney World Resort. Each entry in the comprehensive ^INational Guide^R provides: ^L ^L ^DBL Course title^L ^DBL Location of all sites where the course is offered^L ^DBL Length in hours, days, or weeks^L ^DBL Period during which the credit recommendation applies^L ^DBL Purpose for which the course was designed^L ^DBL Learning outcomes^L ^DBL Teaching methods, materials, equipment, and major subject areas covered^L ^DBL College credit recommendations offered in four categories (by level of degrees) and expressed in semester hours and subject area(s) in which credit is applicable.^L ^L The introductory section includes ACE Transcript Service information.

Modellgetriebene Softwareentwicklung

Visual Studio 2008 is packed with features that help you create better software and do it with less repetition and drudgery. Visual Studio 2008 All-In-One Desk Reference For Dummies shows you how to make the most of this cool suite of tools! It's all here! This comprehensive, seven-books-in-one guide gets you up and running with Visual Studio 2008 in no time. You'll discover Microsoft's vision for Visual Studio, get familiar with the .Net environment and languages, and learn how to install, browse, and make connections with Visual Studio. Soon, you'll be building applications for Vista, Office 2007, and mobile devices; using

AJAX and LINQ; and testing and debugging your programs. Discover how to: Understand Visual Studio's role in software development Work with .Net languages Develop applications for Vista Build smart client interfaces Use the visual data designer Use Ajax controls Streamline application deployment Debug your applications Explore ASP.NET services Work with strongly typed data sets Access data with Visual Studio Program with Visual Studio 2008 Build professional reports with Crystal Reports Fully updated with new information on Vista and .NET Framework 3.0 development, MS Office application development, and more, Visual Studio 2008 All-In-One Desk Reference For Dummies also features a companion Web site packed with sample projects, supplemental podcasts, and a support forum. You'll never find a smarter way to get up to speed with Visual Studio 2008!

The National Guide to Educational Credit for Training Programs 2003

This new edition of Pro C# 5.0 and the .NET 4.5 Platform has been completely revised and rewritten to reflect the latest changes to the C# language specification and new advances in the .NET Framework. You'll find new chapters covering all the important new features that make .NET 4.5 the most comprehensive release yet, including: .NET APIs for Windows 8 style UI apps New asynchronous task-based model for async operations How HTML5 support is being wrapped into C# web applications New programming interfaces for HTTP applications, including improved IPv6 support Expanded WPF, WCF and WF libraries giving C# more power than ever before This comes on top of award winning coverage of core C# features, both old and new, that have made the previous editions of this book so popular (you'll find everything from generics to pLINQ covered here). The mission of this text is to provide you with a rock-solid foundation in the C# programming language and the core aspects of the .NET platform (assemblies, remoting, Windows Forms, Web Forms, ADO.NET, XML web services, etc.). Once you digest the information presented in these 25 chapters, you'll be in a perfect position to apply this knowledge to your specific programming assignments, and you'll be well equipped to explore the .NET universe on your own terms.

MSDN Magazine

C# Complete is a one-of-a-kind book--valuable both for its broad content and its low price. Whether you're brand-new to C# programming, are migrating from Visual Basic or Visual C++ to C#, or have already developed some expertise in C#, you'll get the skills you need to become proficient with Microsoft's powerful new language designed for the .NET platform. Creating complex applications in the .NET Framework is made easier with C#--Microsoft's first true object-oriented programming language. In C# Complete, you'll get a clear picture of everything you need to know for developing applications using C#. You'll begin by learning the essential elements of the language and of Visual Studio .NET, in which you'll develop and run programs in a comprehensive integrated development environment. You'll see how to create functional and exciting user interfaces and desktop applications written with C#, and how to incorporate threads to their best advantage. You'll explore the use of ADO.NET classes in development of C# database applications. Chapters on ASP.NET Web Services will walk you through the building of an XML web services application. You'll also visit some advanced topics, including designing with security in mind, overcoming the shortcomings of the .NET Framework, and working with the Microsoft Mobile Internet Toolkit. C# Complete introduces you to the work of some of Sybex's finest authors, so you'll know where to go to learn even more about C# and the .NET Framework. Inside: Visual C# .NET Essentials Introduction to Visual C# and the .NET Framework Zen and Now: The C# Language Strings Object Oriented Programming Derived Classes Arrays, Indexers, and Collections Reflecting on Classes C# Application Development Building a Better Windows User Interface Building Desktop Applications Working with Threads Database Development with C# Overview of the ADO.NET Classes ADO.NET Application Development Using DataSet Objects to Store Data Using DataSet Objects to Modify Data ASP.NET and Web Services Introduction to C# Web Applications Using XML in Web Applications Web Services Building Your Own Web Controls Advanced C# Development Overcoming Holes in the .NET Framework Overcoming Security Issues Getting Started with Mobile Internet Toolkit

Object Oriented Programming using C#

Create Microsoft Office-based applications that work seamlessly in the Microsoft .NET environment--with this essential reference from Microsoft developer Andrew Whitechapel. The author provides expert advice on the various approaches you can use to build managed solutions with Office, and gives practical guidance on the most viable techniques for technical and business scenarios. You'll begin building custom .NET-based applications with detailed, practical exercises that take you through solutions from beginning to end. Andrew shares tactics, strategies, and best practices--plus full sample code--to help you maximize your development efforts. Packed with the same information used by Microsoft's Product Support Services team, this book is the one reference that every Office and .NET developer should have. Discover how to: Develop powerful .NET solutions for Office with managed interop assemblies Integrate managed code with Microsoft Visual Basic for Applications (VBA) Create custom commands and functionality with managed COM and Automation add-ins Build custom Office features with external data using Web services, .NET remoting, and research services Use Microsoft Visual Studio Tools for Office to create document-centric solutions for Microsoft Excel and Word Use digital signatures, strong-naming and .NET Code Access Security Control Office applications using Platform Invoke, Reflection, drag-and-drop, and the IAccessible interface Develop managed Smart Tags and managed Smart Document solutions Covers Microsoft Office 97, Office 2000, Office XP, and Microsoft Office System 2003 Editions

Visual Studio 2008 All-In-One Desk Reference For Dummies

The first edition of this book was released at the 2001 Tech Ed conference in Atlanta, Georgia. Since that time, this text has been revised, tweaked, and enhanced to account for the changes found within each release of the .NET platform (1.1, 2.0, 3.0 and now 3.5). .NET 3.0 was more of an augmentative release, essentially providing three new APIs: Windows Presentation Foundation (WPF), Windows Communication Foundation (WCF) and Windows Workflow Foundation (WF). As you would expect, coverage of the "W's" has been expanded a great deal in this version of the book from the previous Special Edition text. Unlike .NET 3.0, .NET 3.5 provides dozens of C# language features and .NET APIs. This edition of the book will walk you through all of this material using the same readable approach as was found in previous editions. Rest assured, you'll find detailed coverage of Language Integrated Query (LINQ), the C# 2008 language changes (automatic properties, extension methods, anonymous types, etc.) and the numerous bells and whistles of Visual Studio 2008.

Pro C# 5.0 and the .NET 4.5 Framework

Learn how to build modern web applications from the creator of ABP Framework Key Features Build robust, maintainable, modular, and scalable software solutions using ABP Framework Learn how to implement SOLID principles and domain-driven design in your web applications Discover how ABP Framework speeds up your development cycle by automating repetitive tasks Book DescriptionABP Framework is a complete infrastructure for creating modern web applications by following software development best practices and conventions. With ABP's high-level framework and ecosystem, you can implement the Don't Repeat Yourself (DRY) principle and focus on your business code. Written by the creator of ABP Framework, this book will help you to gain a complete understanding of the framework and modern web application development techniques. With step-by-step explanations of essential concepts and practical examples, you'll understand the requirements of a modern web solution and how ABP Framework makes it enjoyable to develop your own solutions. You'll discover the common requirements of enterprise web application development and explore the infrastructure provided by ABP. Throughout the book, you'll get to grips with software development best practices for building maintainable and modular web solutions. By the end of this book, you'll be able to create a complete web solution that is easy to develop, maintain, and test. What you will learn Set up the development environment and get started with ABP Framework Work with Entity Framework Core and MongoDB to develop your data access layer Understand cross-cutting concerns and how ABP automates repetitive tasks Get to grips with implementing domain-driven design with ABP Framework Build UI pages and components with ASP.NET Core MVC (Razor Pages) and Blazor Work with

multi-tenancy to create modular web applications Understand modularity and create reusable application modules Write unit, integration, and UI tests using ABP Framework Who this book is for This book is for web developers who want to learn software architectures and best practices for building maintainable web-based solutions using Microsoft technologies and ABP Framework. Basic knowledge of C# and ASP.NET Core is necessary to get started with this book.

C# Complete

h2\u003e Kommentare, Formatierung, Strukturierung Fehler-Handling und Unit-Tests Zahlreiche Fallstudien, Best Practices, Heuristiken und Code Smells Clean Code - Refactoring, Patterns, Testen und Techniken für sauberen Code Aus dem Inhalt: Lernen Sie, guten Code von schlechtem zu unterscheiden Sauberen Code schreiben und schlechten Code in guten umwandeln Aussagekräftige Namen sowie gute Funktionen, Objekte und Klassen erstellen Code so formatieren, strukturieren und kommentieren, dass er bestmöglich lesbar ist Ein vollständiges Fehler-Handling implementieren, ohne die Logik des Codes zu verschleiern Unit-Tests schreiben und Ihren Code testgesteuert entwickeln Selbst schlechter Code kann funktionieren. Aber wenn der Code nicht sauber ist, kann er ein Entwicklungsunternehmen in die Knie zwingen. Jedes Jahr gehen unzählige Stunden und beträchtliche Ressourcen verloren, weil Code schlecht geschrieben ist. Aber das muss nicht sein. Mit Clean Code präsentiert Ihnen der bekannte Software-Experte Robert C. Martin ein revolutionäres Paradigma, mit dem er Ihnen aufzeigt, wie Sie guten Code schreiben und schlechten Code überarbeiten. Zusammen mit seinen Kollegen von Object Mentor destilliert er die besten Praktiken der agilen Entwicklung von sauberem Code zu einem einzigartigen Buch. So können Sie sich die Erfahrungswerte der Meister der Software-Entwicklung aneignen, die aus Ihnen einen besseren Programmierer machen werden – anhand konkreter Fallstudien, die im Buch detailliert durchgearbeitet werden. Sie werden in diesem Buch sehr viel Code lesen. Und Sie werden aufgefordert, darüber nachzudenken, was an diesem Code richtig und falsch ist. Noch wichtiger: Sie werden herausgefordert, Ihre professionellen Werte und Ihre Einstellung zu Ihrem Beruf zu überprüfen. Clean Code besteht aus drei Teilen: Der erste Teil beschreibt die Prinzipien, Patterns und Techniken, die zum Schreiben von sauberem Code benötigt werden. Der zweite Teil besteht aus mehreren, zunehmend komplexeren Fallstudien. An jeder Fallstudie wird aufgezeigt, wie Code gesäubert wird – wie eine mit Problemen behaftete Code-Basis in eine solide und effiziente Form umgewandelt wird. Der dritte Teil enthält den Ertrag und den Lohn der praktischen Arbeit: ein umfangreiches Kapitel mit Best Practices, Heuristiken und Code Smells, die bei der Erstellung der Fallstudien zusammengetragen wurden. Das Ergebnis ist eine Wissensbasis, die beschreibt, wie wir denken, wenn wir Code schreiben, lesen und säubern. Dieses Buch ist ein Muss für alle Entwickler, Software-Ingenieure, Projektmanager, Team-Leiter oder Systemanalytiker, die daran interessiert sind, besseren Code zu produzieren. Über den Autor: Robert C. »Uncle Bob« Martin entwickelt seit 1970 professionell Software. Seit 1990 arbeitet er international als Software-Berater. Er ist Gründer und Vorsitzender von Object Mentor, Inc., einem Team erfahrener Berater, die Kunden auf der ganzen Welt bei der Programmierung in und mit C++, Java, C#, Ruby, OO, Design Patterns, UML sowie Agilen Methoden und eXtreme Programming helfen.

Microsoft .NET Development for Microsoft Office

Schnappen Sie sich einen Stift, werfen Sie Ihren Rechner an und begeben Sie sich auf eine Erlebnistour durch C#, bei der sowohl Ihre beiden Gehirnhälften als auch Ihre Lachmuskeln stimuliert werden. C# von Kopf bis Fuß ist ein anregendes Arbeitsbuch für die C# 3.0-Programmierung mit Visual Studio 2008, das alle zentralen Themen von den Sprachgrundlagen bis zur Garbage Collection behandelt. Und Sie lernen auch LINQ, die neueste Syntax von C#, kennen. Wenn Sie dieses Buch durchgearbeitet haben, werden Sie kompetent auch umfangreiche C#-Anwendungen entwickeln können. C# von Kopf bis Fuß ist in einem visuell abwechslungsreichen Format gestaltet, das sich an den neuesten Forschungsergebnissen aus Kognitionswissenschaft und Lerntheorie orientiert und Ihnen das Lernen so einfach wie möglich machen soll. Das Buch bietet Ihnen ein unterhaltsames Lernerlebnis und spielt Ihnen C# direkt ins Hirn - und zwar so, dass es sitzt.

Pro C# 2008 and the .NET 3.5 Platform

Catapult your C# journey with this guide to crafting standout resumes, mastering advanced concepts, and navigating job offers with real-world insights for unparalleled success in programming and interviews

Key Features

- Acquire a strong foundation in syntax, data types, and object-oriented programming to code confidently
- Develop strategies for addressing behavioral questions, tackle technical challenges, and showcase your coding skills
- Augment your C# programming skills with valuable insights from industry experts

Purchase of the print or Kindle book includes a free PDF eBook

Book Description

If you're gearing up for technical interviews by enhancing your programming skills and aiming for a successful career in C# programming and software development, the C# Interview Guide is your key to interview success. Designed to equip you with essential skills for excelling in technical interviews, this guide spans a broad spectrum, covering fundamental C# programming concepts to intricate technical details. As you progress, you'll develop proficiency in crafting compelling resumes, adeptly answering behavioral questions, and navigating the complexities of salary negotiations and job evaluations. What sets this book apart is its coverage, extending beyond technical know-how and incorporating real-world experiences and expert insights from industry professionals. This comprehensive approach, coupled with guidance on overcoming challenges, ranging from interview preparation to post-interview strategies, makes this guide an invaluable resource for those aspiring to advance in their C# programming careers. By the end of this guide, you'll emerge with a solid understanding of C# programming, advanced technical interview skills, and the ability to apply industry best practices.

What you will learn

- Craft compelling resumes and cover letters for impactful job applications
- Demonstrate proficiency in fundamental C# programming concepts and syntax
- Master advanced C# topics, including LINQ, asynchronous programming, and design patterns
- Implement best practices for writing clean, maintainable C# code
- Use popular C# development tools and frameworks, such as .NET and .NET Core
- Negotiate salary, evaluate job offers, and build a strong C# portfolio
- Apply soft skills for successful interactions in C# development roles

Who this book is for

This book is for individuals aspiring to pursue a career in C# programming or software development. Whether you are a beginner or experienced professional, this guide will enhance your technical interview skills and C# programming knowledge.

Mastering ABP Framework

2022-23 RSSB Study Material & Question Bank

Clean Code - Refactoring, Patterns, Testen und Techniken für sauberen Code

Written by the authority on web standards, Jeffrey Zeldman - founding member of WaSP (web standards project).

- Provides code snippets and web site examples of compliant code in use so that when done correctly all web sites will look the same regardless of the browser.
- Details compatibility in terms of HTML, XHTML, XML, and CSS - the key coding languages of the web.

C# von Kopf bis Fuß

Abstract:

Software Development

Master advanced techniques for dynamic .NET programming and accelerate productivity by automating tasks, generating adaptable code, and more

Purchase of the print or Kindle book includes a free PDF eBook

Key Features

- Employ metaprogramming to automate your tasks and increase your productivity
- Write maintainable, scalable, and adaptable code using metaprogramming techniques
- Leverage the .NET runtime for complex problem-solving

Book Description

Metaprogramming is an advanced technique that helps developers to automate repetitive tasks, generate scalable code, and enhance productivity in software

development. Metaprogramming in C# is a comprehensive guide that will help you reap the full potential of metaprogramming in .NET runtime. You'll start by learning about the .NET runtime environment and how you can use it to become a more productive developer. You'll learn how to infer types using reflection, use attributes, and create dynamic proxies. You'll also explore the use of expressions to create and execute code and how to take advantage of Dynamic Language Runtime. But that's not all! You'll also learn to go beyond inheritance and use method signature conventions to create easily maintainable code. Finally, you'll dive into the world of compiler magic with Roslyn, where you'll discover how to use Roslyn to generate code, perform static code analysis, and write your own compiler extensions. By the end of this book, you'll have a deep understanding of metaprogramming concepts and how to apply them to your C# code. You'll be able to think about types, use attributes and expressions to generate code, and apply crosscutting concerns to improve code quality. What you will learn Explore how to leverage the .NET runtime Improve code quality and increase productivity Write adaptable code for changing requirements Learn Roslyn for code generation and static analysis Master metaprogramming and its practical implementations Use Dynamic Language Runtime for flexible and expressive programming Who this book is for This book is for C# developers interested in learning about the .NET runtime and how to leverage it for writing maintainable, scalable, and secure code. Software architects who are responsible for designing and managing complex software solutions will also benefit from the book.

Entwurfsmuster verstehen

Praktische C++-Programmierung

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