

Software Engineering VIVA QUESTIONS

Q.What is computer software?

A. Computer software is a complete package, which includes software program, its documentation and user guide on how to use the software.

Q.Can you differentiate computer software and computer program?

A. A computer program is piece of programming code which performs a well defined task where as software includes programming code, its documentation and user guide.

Q.What is software engineering?

A. Software engineering is an engineering branch associated with software system development.

Q.When you know programming, what is the need to learn software engineering concepts?

A. A person who knows how to build a wall may not be good at building an entire house. Likewise, a person who can write programs may not have knowledge of other concepts of Software Engineering. The software engineering concepts guide programmers on how to assess requirements of end user, design the algorithms before actual coding starts, create programs by coding, testing the code and its documentation.

Q.What is software process or Software Development Life Cycle (SDLC)?

A.Software Development Life Cycle, or software process is the systematic development of software by following every stage in the development process namely, Requirement Gathering, System Analysis, Design, Coding, Testing, Maintenance and Documentation in that order.

Q.What are SDLC models available?

A. There are several SDLC models available such as Waterfall Model, Iterative Model, Spiral model, V-model and Big-bang Model etc.

Q.What are various phases of SDLC?

Software Engineering Lab Viva Questions

Gayle Laakmann McDowell



Software Engineering Lab Viva Questions

Cracking the Coding Interview Gayle Laakmann McDowell,2011 Now in the 5th edition Cracking the Coding Interview gives you the interview preparation you need to get the top software developer jobs This book provides 150 Programming Interview Questions and Solutions From binary trees to binary search this list of 150 questions includes the most common and most useful questions in data structures algorithms and knowledge based questions 5 Algorithm Approaches Stop being blind sided by tough algorithm questions and learn these five approaches to tackle the trickiest problems Behind the Scenes of the interview processes at Google Amazon Microsoft Facebook Yahoo and Apple Learn what really goes on during your interview day and how decisions get made Ten Mistakes Candidates Make And How to Avoid Them Don t lose your dream job by making these common mistakes Learn what many candidates do wrong and how to avoid these issues Steps to Prepare for Behavioral and Technical Questions Stop meandering through an endless set of questions while missing some of the most important preparation techniques Follow these steps to more thoroughly prepare in less time DBMS Lab Manual Jitendra Patel,2012-12 This manual is specially written for Students who are interested in understanding Structured Query Language and PL SQL concepts in the Computer Engineering and Information technology field and wants to gain enhance knowledge about power of SQL Language in Relational Database Management System Development The manual covers practical point of view in all aspects of SQL and PL SQL including DDL DML DCL sublanguages also there are practices for Views Group by Having Clause All PL SQL concepts like Condition and Loop Structures Functions and Procedures Cursor Triggers Locks are illustrated using best examples *Ace the Data Science Interview* Kevin Huo,Nick Singh,2021 *Case Study Research in Software Engineering* Per Runeson,Martin Host,Austen Rainer,Bjorn Regnell,2012-03-07 Based on their own experiences of in depth case studies of software projects in international corporations in this book the authors present detailed practical guidelines on the preparation conduct design and reporting of case studies of software engineering This is the first software engineering specific book on the case study research method *Object-oriented Software Engineering* Timothy Christian Lethbridge,Robert Laganière,2004 This book covers the essential knowledge and skills needed by a student who is specializing in software engineering Readers will learn principles of object orientation software development software modeling software design requirements analysis and testing The use of the Unified Modelling Language to develop software is taught in depth Many concepts are illustrated using complete examples with code written in Java *Interview Questions and Answers* Richard McMunn,2013-05 Programmer Aptitude Test (PAT) National Learning Corporation,2011 The Programmer Aptitude Test PAT Passbook R prepares you for your test by allowing you to take practice exams in the subjects you need to study **Rethinking Productivity in Software Engineering** Caitlin Sadowski,Thomas Zimmermann,2019-05-07 Get the most out of this foundational reference and improve the productivity of your software

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Thinking, Reasoning, and Decision Making in Autism Kinga Morsanyi, Ruth M.J. Byrne, 2019-10-11 Thinking and Reasoning in Autism provides fresh insights into the cognitive processes that underlie some of the typical characteristics of autism Autism has long been considered an enigma and no single theory so far has been able to explain or even fully describe the key characteristics of the autistic mind From the interdisciplinary perspective of new research in cognitive psychology linguistics philosophy and neuroscience this book explores thinking reasoning and decision making in autism The new cognitive approaches challenge some of the existing assumptions of the nature of thought in autism including presumed areas of impairments Instead this book focuses on the nuanced array of cognitive signatures that characterize the autistic mind and in many cases it reveals the possibility of intact performance alongside instances of remarkably enhanced thinking The book considers the implications of these characteristics providing in depth analyses of specific areas of cognitive functioning and their everyday manifestations Featuring contributions from world leading researchers from the fields of cognitive science and autism research this volume will be essential reading for advanced students and researchers as well as those working with individuals with autism spectrum disorders

Head First Design Patterns Eric Freeman, Elisabeth Robson, Bert Bates, Kathy Sierra, 2004-10-25 Using research in neurobiology cognitive science and learning theory this text loads patterns into your brain in a way that lets you put them to work immediately makes you better at solving software design problems

and improves your ability to speak the language of patterns with others on your team *The New Rules of Work* Alexandra Cavoulacos, Kathryn Minshew, 2017 In this definitive guide to the ever changing modern workplace Kathryn Minshew and Alexandra Cavoulacos the co founders of popular career website TheMuse.com show how to play the game by the New Rules The Muse is known for sharp relevant and get to the point advice on how to figure out exactly what your values and your skills are and how they best play out in the marketplace Now Kathryn and Alex have gathered all of that advice and more in *The New Rules of Work* Through quick exercises and structured tips the authors will guide you as you sort through your countless options communicate who you are and why you are valuable and stand out from the crowd *The New Rules of Work* shows how to choose a perfect career path land the best job and wake up feeling excited to go to work every day whether you are starting out in your career looking to move ahead navigating a mid career shift or anywhere in between **Data**

Mining: Concepts and Techniques Jiawei Han, Micheline Kamber, Jian Pei, 2011-06-09 *Data Mining Concepts and Techniques* provides the concepts and techniques in processing gathered data or information which will be used in various applications Specifically it explains data mining and the tools used in discovering knowledge from the collected data This book is referred as the knowledge discovery from data KDD It focuses on the feasibility usefulness effectiveness and scalability of techniques of large data sets After describing data mining this edition explains the methods of knowing preprocessing processing and warehousing data It then presents information about data warehouses online analytical processing OLAP and data cube technology Then the methods involved in mining frequent patterns associations and correlations for large data sets are described The book details the methods for data classification and introduces the concepts and methods for data clustering The remaining chapters discuss the outlier detection and the trends applications and research frontiers in data mining This book is intended for Computer Science students application developers business professionals and researchers who seek information on data mining Presents dozens of algorithms and implementation examples all in pseudo code and suitable for use in real world large scale data mining projects Addresses advanced topics such as mining object relational databases spatial databases multimedia databases time series databases text databases the World Wide Web and applications in several fields Provides a comprehensive practical look at the concepts and techniques you need to get the most out of your data [How to Castrate a Bull](#) Dave Hitz, 2009-01-20 Dave Hitz likes to solve fun problems He didn't set out to be a Silicon Valley icon a business visionary or even a billionaire But he became all three It turns out that business is a mosaic of interesting puzzles like managing risk developing and reversing strategies and looking into the future by deconstructing the past As a founder of NetApp a data storage firm that began as an idea scribbled on a placemat and now takes in 4 billion a year Hitz has seen his company go through every major cycle in business from the Jack of All Trades mentality of a start up through the tumultuous period of the IPO and the dot com bust and finally to a mature enterprise company NetApp is one of the fastest growing computer companies ever and for six years in a row it has been on

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[Python Machine Learning](#) Sebastian Raschka, 2015-09-23 Unlock deeper insights into Machine Learning with this vital guide to cutting edge predictive analytics About This Book Leverage Python's most powerful open source libraries for deep learning data wrangling and data visualization Learn effective strategies and best practices to improve and optimize machine learning systems and algorithms Ask and answer tough questions of your data with robust statistical models built for a range of datasets Who This Book Is For If you want to find out how to use Python to start answering critical questions of your data pick up Python Machine Learning whether you want to get started from scratch or want to extend your data science knowledge this is an essential and unmissable resource What You Will Learn Explore how to use different machine learning models to ask different questions of your data Learn how to build neural networks using Keras and Theano Find out how to write clean and elegant Python code that will optimize the strength of your algorithms Discover how to embed your machine learning model in a web application for increased accessibility Predict continuous target outcomes using regression analysis Uncover hidden patterns and structures in data with clustering Organize data using effective pre processing techniques Get to grips with sentiment analysis to delve deeper into textual and social media data In Detail Machine learning and predictive analytics are transforming the way businesses and other organizations operate Being able to understand trends and patterns in complex data is critical to success becoming one of the key strategies for unlocking growth in a challenging contemporary marketplace Python can help you deliver key insights into your data its unique capabilities as a language let you build sophisticated algorithms and statistical models that can reveal new perspectives and answer key questions that are vital for success Python Machine Learning gives you access to the world of predictive analytics and demonstrates why Python is one of the world's leading data science languages If you want to ask better questions of data or need to improve and extend the capabilities of your machine learning systems this practical data science book is invaluable Covering a wide range of powerful Python libraries including scikit learn Theano and Keras and featuring guidance and tips on everything from sentiment analysis to neural networks you'll soon be able to answer some of the most important questions facing you and your organization Style and approach Python Machine Learning connects the fundamental theoretical principles behind machine learning to their practical application in a way that focuses you on asking and answering the right questions It walks

you through the key elements of Python and its powerful machine learning libraries while demonstrating how to get to grips with a range of statistical models

Interview Math Lewis C. Lin,2015-01-12 Interview Math provides over 50 practice problems and answers to help job seekers master quantitative interview questions including Market Sizing Revenue Estimates Profitability Breakeven Pricing Customer Lifetime Value If you re interviewing at one of the highly sought after positions below you ll need to master these interview math questions Management Consulting McKinsey Bain Boston Consulting Group Deloitte General Management Capital One Taser Marketing General Mills Google Hershey Software Engineering Goldman Sachs Microsoft Finance American Airlines Best Buy JetBlue You ll learn interview math concept and principles and then master those concepts with over 50 practice questions filled with detailed answers After going through the book candidates will feel knowledgeable confident relaxed and ready to tackle interview math questions

The Algorithm Design Manual Steven S Skiena,2009-04-05 This newly expanded and updated second edition of the best selling classic continues to take the mystery out of designing algorithms and analyzing their efficacy and efficiency Expanding on the first edition the book now serves as the primary textbook of choice for algorithm design courses while maintaining its status as the premier practical reference guide to algorithms for programmers researchers and students The reader friendly Algorithm Design Manual provides straightforward access to combinatorial algorithms technology stressing design over analysis The first part Techniques provides accessible instruction on methods for designing and analyzing computer algorithms The second part Resources is intended for browsing and reference and comprises the catalog of algorithmic resources implementations and an extensive bibliography NEW to the second edition Doubles the tutorial material and exercises over the first edition Provides full online support for lecturers and a completely updated and improved website component with lecture slides audio and video Contains a unique catalog identifying the 75 algorithmic problems that arise most often in practice leading the reader down the right path to solve them Includes several NEW war stories relating experiences from real world applications Provides up to date links leading to the very best algorithm implementations available in C C and Java

Numerical Python Robert Johansson,2018-12-24 Leverage the numerical and mathematical modules in Python and its standard library as well as popular open source numerical Python packages like NumPy SciPy FiPy matplotlib and more This fully revised edition updated with the latest details of each package and changes to Jupyter projects demonstrates how to numerically compute solutions and mathematically model applications in big data cloud computing financial engineering business management and more Numerical Python Second Edition presents many brand new case study examples of applications in data science and statistics using Python along with extensions to many previous examples Each of these demonstrates the power of Python for rapid development and exploratory computing due to its simple and high level syntax and multiple options for data analysis After reading this book readers will be familiar with many computing techniques including array based and symbolic computing visualization and numerical file I O equation solving optimization

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Head First Java Kathy Sierra, Bert Bates, 2005-02-09 Learning a complex new language is no easy task especially when it s an object oriented computer programming language like Java You might think the problem is your brain It seems to have a mind of its own a mind that doesn t always want to take in the dry technical stuff you re forced to study The fact is your brain craves novelty It s constantly searching scanning waiting for something unusual to happen After all that s the way it was built to help you stay alive It takes all the routine ordinary dull stuff and filters it to the background so it won t interfere with your brain s real work recording things that matter How does your brain know what matters It s like the creators of the Head First approach say suppose you re out for a hike and a tiger jumps in front of you what happens in your brain Neurons fire Emotions crank up Chemicals surge That s how your brain knows And that s how your brain will learn Java Head First Java combines puzzles strong visuals mysteries and soul searching interviews with famous Java objects to engage you in many different ways It s fast it s fun and it s effective And despite its playful appearance Head First Java is serious stuff a complete introduction to object oriented programming and Java You ll learn everything from the fundamentals to advanced topics including threads network sockets and distributed programming with RMI And the new second edition focuses on Java 5 0 the latest version of the Java language and development platform Because Java 5 0 is a major update to the platform with deep code level changes even more careful study and implementation is required So learning the Head First way is more important than ever If you ve read a Head First book you know what to expect a visually rich format designed for the way your brain works If you haven t you re in for a treat You ll see why people say it s unlike any other Java book you ve ever read By exploiting how your brain works Head First Java compresses the time it takes to learn and retain complex information Its unique approach not only shows you what you need to know about Java syntax it teaches you to think like a Java programmer If you want to be bored buy some other book But if you want to understand Java this book s for you

Aspen Plus Kamal I. M. Al-Malah, 2022-10-12 ASPEN PLUS Comprehensive resource covering Aspen Plus V12 1 and demonstrating how to implement the program in versatile chemical process industries Aspen Plus Chemical Engineering Applications facilitates the process of learning and later mastering Aspen Plus the market leading chemical process modeling software with step by step examples and succinct explanations The text enables readers to identify solutions to various process engineering problems via screenshots of the Aspen Plus platforms in parallel with the related text To aid in information retention the text includes end of chapter problems and term project problems online exam and quiz problems for instructors that are parametrized i e adjustable so

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