Cognixia

A Collabera LEARNING SOLUTIONS COMPANY

Software Development Fundamentals (98-361)

In association with : Silver Microsoft Partner

TOP 5 Emerging Technologies 2016 TRAINING COMPANIES siliconindia

Top 10 IoT Training Institutes – 2016 Analytics India MAGAZINE

TOP 5 CLOUD TRAINING INSTITUTIONS INDIA 2016 HIGHER EDUCATION Review

TOP 5 Big Data TRAINING INSTITUTES 2017 siliconindia

Asian Training & Leadership Award, Dubai

Top 10 IoT Training Companies for the **Second consecutive year.** 2017 IoT India MAGAZINE

TOP 10 IoT TRAINING INSTITUTES IN INDIA 2017 PROMISING HIGHER EDUCATION Review

Best Workplace Amongst Emerging Enterprises Awarded By **Great Indian Workplace Awards** – 2018 Mumbai, India

siliconindia BEST TRAINING PROVIDER BIG DATA HADOOP DEVELOPER OF THE YEAR 2016

Best Training Provider of the Year Awarded By **The Golden Globe Tiger Awards** – 2018 Kuala Lampur, Malaysia

World HRD Congress has awarded for Excellence in Training (Asia)

WORLD HRD CONGRESS Cognixia is awarded as Training Company of the Year, 2018

ISO 9001:2015 CERTIFIED ISO 9001:2015 Certified Quality Management System

ISO ISO/IEC 27001:2013 Certified Information Security Management System

Understanding core programming

Understand computer storage and data types

- How a computer stores programs and the instructions in computer memory, memory stacks and heaps, memory size requirements for the various data storage types, numeric data and textual data

Understand computer decision structures

- Various decision structures used in all computer programming languages; If decision structures; multiple decision structures, such as If…Else and switch/Select Case; reading flowcharts; decision tables; evaluating expressions

Identify the appropriate method for handling repetition

- For loops, While loops, Do...While loops and

recursion Understand error handling

- Structured exception handling

Understanding object-oriented programming

Understand the fundamentals of classes

- Properties, methods, events and constructors; how to create a class; how to use classes in code

Understand inheritance

- Inheriting the functionality of a base class into a derived class

Understand polymorphism

- Extending the functionality in a class after inheriting from a base class, overriding methods in the derived class

Understand encapsulation

- Creating classes that hide their implementation details while still allowing access to the required functionality through the interface, access modifiers

Understanding general software development

Understand application life cycle management

- Phases of application life cycle management, software testing

Interpret application specifications

- Reading application specifications and translating them into prototypes, code, select appropriate application type and components

Understand algorithms and data structures

- Arrays, stacks, queues, linked lists and sorting algorithms; performance implications of various data structures; choosing the right data structure

Understanding web applications

Understand web page development

- HTML, Cascading Style Sheets (CSS), JavaScript

Understand Microsoft ASP.NET web application development

- Page life cycle, event model, state management, client-side versus server-side programming

Understand web hosting

- Creating virtual directories and websites, deploying web applications, understanding the role of Internet Information Services

Understand web services

- Web services that will be consumed by client applications, accessing web services from a client application, SOAP and Web Service Definition Language (WSDL)

Understanding desktop applications

Understand Windows apps

- UI design guideline categories, characteristics and capabilities of Store Apps, identify gestures

Understand console-based applications

- Characteristics and capabilities of console-based applications

Understand Windows Services

- Characteristics and capabilities of Windows Services

Understanding databases

Understand relational database management systems

- Characteristics and capabilities of database products, database design, Entity Relationship Diagrams (ERDs), normalisation concepts

Understand database query methods

- Structured query language (SQL), creating and accessing stored procedures, updating data and selecting data

Understand database connection methods

- Connecting to various types of data stores, such as flat file; XML file; in-memory object; resource optimisation

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Thank You

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