TECHNOLOGICAL INNOVATION PRINCIPLES

Texas Data Management Applications Guide

PREFACE

I thought about writing this EBOOK after visiting the WorkInTexas.com website, I was building my online resume when I realized that this website has a list of all the tools and software that people use at various companies in the state of Texas. However there is no guide on this semi-official government website on how to start learning these technologies. So I decided to learn these skills and then blog about it in my EBOOK and my online journal located at

http://defensivecoding.blogspot.com

I already knew 30 to 40 percent of the technologies having used them at 50 companies in Texas so I would just research the rest and install them and write up all the information that I discover during this research. Since there are many job titles in the state of Texas so for starters I would only focus on skills related to the Data Architect and Software Developer roles which should be generic enough to help anyone wanting to get into Information Technology Career. This guide is for the corporate recruiter as well as the developer who works with these products.

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a – Introduction to Technological Innovation:

The word Information Technology is confusing and I don't know who coined this word but it is showing its age because we are currently in the era of adopting new innovative ways of working with software Applications and Data so a better word would be Innovation Technology or Technological Innovation. The words innovation and invention are closely related so when we talk about Information Technology that was the invention of various applications and products to manage certain tasks using computers but now we are past this early invention phase and we are in the innovation phase where we are trying to come up with new creative ways of working with software but faster and more efficiently so it is easier to maintain and easier to scale.

b – WorkInTexas.com website :

The WorkInTexas.com website is a job search tool provided by the State of Texas. This website has valuable information in it. When you first login to the WorkInTexas.com website you will notice that the site presents you with a menu for **Services for Individuals** and **Services for Employers** as shown below.

The scope of this EBOOK is services for individuals and how to help you make your resume better with more skills on it so you can land that dream job. The Services for Employers is out of scope for now but we will touch upon this from a recruiter's perspective later on in the book but it will be an overview and not a detailed discussion or guide for recruiters. Most job search and placement websites like Glassdoor, ZipRecruiter etc. are organized like this where they have an Employer section and an Employee or job seeker section so as we talked about earlier that was the invention of these tools as part of the Information Technology process but now we are in the innovation phase where we are trying to use these tools better and compare them against each other to see which one provides more features.

When we click on the **Services of Individuals** menu item we are taken to a menu of services as shown below. We are interested in the **Career Services** menu item because we want to improve our skills as a Data Architect.

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When you initially try to use this website, you will need to create a resume and then you can get to fine tuning your Job Skills because the website uses keywords from your resume to give you suggestions so it is good to create a resume. Next we on the **Job Skills** menu item as shown below.

Click on Job Skills
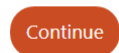

And then click on

And then click on

Please select the desired occupation match level for your selected assessments.

- ○ Closely match your Job Skills
- ○ Moderately match your Job Skills
- ○ Loosely match your Job Skills
- ● Show all occupations

Continue

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Occupation Title	Total Skills	Skills You Match	Skills You Lack	Match Level (%)	Job Openings (Mar 12, 2023)
Software Developers	20	20	0	100.0%	20
Computer Systems Engineers/Architects	23	23	0	100.0%	5
Telecommunications Engineering Specialists	13	9	4	69.2%	0
Computer Network Support Specialists	13	9	4	69.2%	1
Computer Network Architects	16	11	5	68.8%	7
Computer User Support Specialists	21	13	8	61.9%	15
Health Informatics Specialists	20	12	8	60.0%	0
Information Security Analysts	9	5	4	55.6%	0
Computer and Information Research Scientists	9	5	4	55.6%	0
Video Game Designers	9	5	4	55.6%	0

Finally we are presented with the screen above. We are interested in the skills for this job:

1. **Data Architect:** There are some 500+ unique skills for this role so it is a big task. It looks easy but there is a lot of information for this role. So what we will do is extract out this list of skills into an Excel spreadsheet and then we will go and work on each skill one by one.

Note: At the end of this exercise you will have successfully built a database providing you with a list of skills for the profession that you are interested in and we know these skills are being used in the State of Texas because we got them from the corresponding website. Please look at the Appendix section at the end of this guide for the list of Data Architect skills.

It will be very time consuming to go after each skill and a better approach would be to go after the one's which we see on job descriptions most often and which recruiters ask us about when they call. I have done 150 in person interviews so you can do the same and prioritize and focus on the skills that you think recruiters are most interested in. This EBOOK is a follow up of the work I did when I built the sample JobHub application in my previous EBOOK.

c – Data Architect Skills :

At the time of writing this guide, Data Architects utilize 658 unique skills in the State of Texas.

NOTE: I chose the Data Architect role but you can do the same thing for any other role and extract the skills for the role that you are interested in for example software developer or web developer.

1 – Azure Data Bricks :

To do. Research Azure Data Bricks. *Begin the research*

2 – AWS :

To do. Research AWS. *Begin the research*

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Appendix :

Table 1 – List of Data Architect Skills extracted from WorkInTexas.com website:

Technology	Category
Access management software	Access software
Citrix	Access software
Citrix cloud computing software	Access software
Symark PowerBroker	Access software
Fund accounting software	Accounting software
Tax software	Accounting software
Redgate SQL Server	Administration software
SolarWinds	Administration software
Cisco Systems CiscoWorks	Administration software
Element management software	Administration software
IBM SPSS Statistics	Analytical or scientific software
Infobright Community Edition ICE	Analytical or scientific software
Minitab	Analytical or scientific software
Safe Software FME	Analytical or scientific software
SAS	Analytical or scientific software
StataCorp Stata	Analytical or scientific software
Test data generator software	Analytical or scientific software
The MathWorks MATLAB	Analytical or scientific software
SAS statistical software	Analytical or scientific software
Structure prediction software	Analytical or scientific software
Application server software	Application server software
Docker	Application server software
GitHub	Application server software
Oracle Application Server	Application server software
Oracle WebLogic Server	Application server software
Red Hat WildFly	Application server software
Spring Boot	Application server software
Red Hat OpenShift	Application server software
VMWare ESX Server	Application server software
GitLab	Application server software
Kubernetes	Application server software
Microservices Architecture	Application server software
Atlassian Bitbucket	Application server software
Acronis Recovery Expert	Backup or archival software
BMC Software Recovery Manager RMAN	Backup or archival software
Data Recovery Software SQL Server Data Recovery	Backup or archival software
Database cloning software	Backup or archival software
EMC NetWorker	Backup or archival software
HP DataProtector	Backup or archival software
IBM ADSTAR	Backup or archival software
Oracle Data Guard	Backup or archival software
Oracle Recovery Manager	Backup or archival software
Storage management software	Backup or archival software
Systems and data disaster recovery software	Backup or archival software

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Veritas NetBackup	Backup or archival software
System and data disaster recovery software	Backup or archival software
IBM Cognos Impromptu	Business intelligence and data analysis software
Micosoft SQL Server Analysis Services SSAS	Business intelligence and data analysis software
MicroStrategy	Business intelligence and data analysis software
Oracle Business Intelligence Enterprise Edition	Business intelligence and data analysis software
Qlik Tech QlikView	Business intelligence and data analysis software
Tableau	Business intelligence and data analysis software
Apache Spark	Business intelligence and data analysis software
TIBCO Spotfire	Business intelligence and data analysis software
Business intelligence system software	Business intelligence and data analysis software
Google Drive	Cloud-based data access and sharing software
Microsoft SharePoint	Cloud-based data access and sharing software
Dropbox	Cloud-based data access and sharing software
Slack	Cloud-based data access and sharing software
Software as a service SaaS	Cloud-based data access and sharing software
Amazon Web Services AWS CloudFormation	Cloud-based management software
IBM WebSphere	Cloud-based management software
Jitterbit	Cloud-based management software
Splunk Enterprise	Cloud-based management software
Google Cloud software	Cloud-based management software
SolarWinds	Cloud-based protection or security software
Cluster server software	Clustering software
Oracle Real Application Cluster RAC	Clustering software
Aster Data nCluster	Clustering software
IBM Domino	Communications server software
Time sharing option TSO software	Compiler and decompiler software
Code generator software	Compiler and decompiler software
Command interpreters	Compiler and decompiler software
Compilers	Compiler and decompiler software
Decompilers	Compiler and decompiler software
Incremental compiler software	Compiler and decompiler software
Inline code expander software	Compiler and decompiler software
Interpreter software	Compiler and decompiler software
Just-in-time compiler	Compiler and decompiler software
Mixed code generator	Compiler and decompiler software
One pass compiler software	Compiler and decompiler software
Partial class generator software	Compiler and decompiler software
Retargetable compiler	Compiler and decompiler software
Stage compiler	Compiler and decompiler software
Threaded code compiler	Compiler and decompiler software
Autodesk Revit	Computer aided design CAD software
Dassault Systemes CATIA	Computer aided design CAD software
Autodesk AutoCAD	Computer aided design CAD software
Bentley MicroStation	Computer aided design CAD software
Computer aided design and drafting CADD software	Computer aided design CAD software
Dassault Systemes SOLIDWORKS	Computer aided design CAD software
PTC Creo Parametric	Computer aided design CAD software

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Electronic design automation EDA software	Computer aided design CAD software
OrCAD Capture	Computer aided design CAD software
SpectraQuest	Computer aided design CAD software
Computer based training software	Computer based training software
InScribe	Computer based training software
Chef	Configuration management software
Deployment software	Configuration management software
Perforce Helix software	Configuration management software
Puppet	Configuration management software
Red Hat Ansible Engine	Configuration management software
VMWare	Configuration management software
IBM Rational Build Forge	Configuration management software
IBM Rational ClearCase	Configuration management software
IBM Terraform	Configuration management software
Application management software	Configuration management software
Automated installation software	Configuration management software
HyperSpace	Configuration management software
InstallShield	Configuration management software
Patch and update management software	Configuration management software
Software distribution software	Configuration management software
application deployment and migration software	Configuration management software
Wise Solutions Wise for Windows Installer	Configuration management software
Revision control software	Configuration management software
Atlassian JIRA	Content workflow software
Emerald Software Group Emerald Green Office	Content workflow software
Workflow software	Content workflow software
Blackbaud The Raiser's Edge	Customer relationship management CRM software
Oracle Eloqua	Customer relationship management CRM software
Salesforce software	Customer relationship management CRM software
ADO.NET	Data base management system software
Amazon DynamoDB	Data base management system software
Amazon Kinesis	Data base management system software
Apache Cassandra	Data base management system software
Apache Flume	Data base management system software
Apache Hadoop	Data base management system software
Apache Hbase	Data base management system software
Apache Oozie	Data base management system software
Apache Pig	Data base management system software
Apache Solr	Data base management system software
Apache Sqoop	Data base management system software
BMC Software Change Manager	Data base management system software
CA IDMS	Data base management system software
Catalog navigation software	Data base management system software
Concurrency control software	Data base management system software
Couchbase Server	Data base management system software
Data definition language DDL	Data base management system software
Data manipulation language DML	Data base management system software
Data transformation services DTS software	Data base management system software

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Database design software	Data base management system software
Elasticsearch	Data base management system software
Embarcadero Technologies DBArtisan	Data base management system software
Greenplum Database	Data base management system software
IBM Interactive System Productivity Facility ISPF	Data base management system software
Index tuning software	Data base management system software
Informatica Big Data	Data base management system software
MapR Converged Data Platform	Data base management system software
MariaDB	Data base management system software
MongoDB	Data base management system software
Multidimensional Expressions MDX	Data base management system software
MySQL	Data base management system software
NoSQL	Data base management system software
Oracle Enterprise Manager	Data base management system software
Oracle Enterprise Manager Cloud Control	Data base management system software
Oracle Golden Gate	Data base management system software
Oracle Migration Workbench	Data base management system software
Oracle PL/SQL	Data base management system software
Quest Central	Data base management system software
Quest SharePlex	Data base management system software
Relational database management software	Data base management system software
SAP Adaptive Server Enterprise	Data base management system software
SAP Replication Server	Data base management system software
SentryOne SQL Sentry	Data base management system software
Talend Big Data Integration	Data base management system software
Teradata Database	Data base management system software
Amazon Data Pipeline	Data base management system software
CodeFutures dbShards	Data base management system software
InterMine	Data base management system software
Kalido Information Engine	Data base management system software
ParAccel Analytic Database	Data base management system software
SAND	Data base management system software
SAP IQ	Data base management system software
Talendforge	Data base management system software
Apache Hive	Data base management system software
DBTools Software DBManager Professional	Data base management system software
IBM Infosphere Information Server	Data base management system software
Redis	Data base management system software
Oracle DBMS	Data base management system software
Oracle Database	Data base management system software
CAST SQL Builder	Data base management system software
Computer Associates integrated data management system CA-IDMS	Data base management system software
Structured Query Report SQR	Data base management system software
ASG Technologies ASG-Zeke	Data base reporting software
Microsoft SQL Server Reporting Services	Data base reporting software
Oracle Reports	Data base reporting software
Oracle SQL Loader	Data base reporting software
Oracle SQL Plus	Data base reporting software

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ReCrystallize Crystal Reports	Data base reporting software
SAP Crystal Reports	Data base reporting software
Microsoft SQL Server Reporting Services SSRS	Data base reporting software
IBM Netezza TwinFin	Data base reporting software
Oracle Business Intelligence Discoverer	Data base reporting software
Oracle Business Intelligence Suite	Data base reporting software
Amazon Elastic Compute Cloud EC2	Data base user interface and query software
Amazon Redshift	Data base user interface and query software
Amazon Web Services AWS software	Data base user interface and query software
Apache Hive	Data base user interface and query software
Blackboard	Data base user interface and query software
Cloudera Impala	Data base user interface and query software
Data entry software	Data base user interface and query software
FileMaker Pro	Data base user interface and query software
IBM DB2	Data base user interface and query software
Microsoft Access	Data base user interface and query software
Microsoft SQL Server	Data base user interface and query software
Oracle JDBC	Data base user interface and query software
Oracle software	Data base user interface and query software
Structured query language SQL	Data base user interface and query software
Teradata Active Enterprise Data Warehouse	Data base user interface and query software
Transact-SQL	Data base user interface and query software
Blackboard software	Data base user interface and query software
Oracle Database	Data base user interface and query software
MySQL	Data base user interface and query software
Database software	Data base user interface and query software
Teradata BTEQ	Data base user interface and query software
NumPy	Data base user interface and query software
pandas	Data base user interface and query software
PySpark	Data base user interface and query software
PyTorch	Data base user interface and query software
xQuery	Data base user interface and query software
ServiceNow	Data base user interface and query software
SAP BusinessObjects Desktop Intelligence	Data base user interface and query software
Software asset management SAM software	Data base user interface and query software
dBASE Plus	Data base user interface and query software
IEA Software Emerald	Data base user interface and query software
Data conversion software	Data conversion software
Google Analytics	Data mining software
IBM InfoSphere Warehouse	Data mining software
Rapid-I RapidMiner	Data mining software
SAP NetWeaver Business Warehouse	Data mining software
Teradata FastLoad	Data mining software
Teradata Parallel Transporter	Data mining software
Teradata Tpump	Data mining software
SAP NetWeaver BW	Data mining software
Skype	Desktop communications software
Eko	Desktop communications software

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CrossTec NetOp Remote Control	Desktop communications software
Remote control software	Desktop communications software
Stac Software ReachOut	Desktop communications software
Symantec pcAnywhere	Desktop communications software
Microsoft Publisher	Desktop publishing software
Adobe Systems Adobe FrameMaker	Desktop publishing software
Microsoft Azure software	Development environment softwar
Adeptia ETL Suite	Development environment software
Apache Ant	Development environment software
Apache Kafka	Development environment software
Apache Maven	Development environment software
C	Development environment software
CloverETL	Development environment software
Common business oriented language COBOL	Development environment software
Eclipse IDE	Development environment software
Go	Development environment software
Integrated development environment IDE software	Development environment software
Microsoft .NET Framework	Development environment software
Microsoft Azure	Development environment software
Microsoft PowerShell	Development environment software
Microsoft Visual Basic	Development environment software
Microsoft Visual Basic for Applications VBA	Development environment software
Microsoft Visual Basic Scripting Edition VBScript	Development environment software
Microsoft Visual Studio	Development environment software
Oracle Jdeveloper	Development environment software
Prolog	Development environment software
Quest SQL Optimizer for Oracle	Development environment software
Restructured extended executor REXX	Development environment software
Ruby	Development environment software
Microsoft Azure software	Development environment software
Oracle SQL Developer	Development environment software
Scikit-learn	Development environment software
Adobe Systems Adobe ActionScript	Development environment software
Adobe Systems Adobe AIR	Development environment software
Aonix Software Through Pictures	Development environment software
Borland VisiBroker	Development environment software
Formula translation/translator FORTRAN	Development environment software
IBM Rational Application Developer	Development environment software
IBM Rational Rose	Development environment software
IONA Orbix	Development environment software
National Instruments LabVIEW	Development environment software
Oracle Java 2 Platform Enterprise Edition J2EE	Development environment software
ToadSoft Toad	Development environment software
Verilog	Development environment software
IBM Rational Rose XDE	Development environment software
Ada	Development environment software
Embarcadero JBuilder	Development environment software
IBM Rational ClearQuest	Development environment software

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IBM Rational Rose XDE Developer	Development environment software
J	Development environment software
Symantec Visual Cafe	Development environment software
A programming language APL	Development environment software
ABC Compiler	Development environment software
Adobe Systems Adobe PostScript	Development environment software
Algorithmic language ALGOL	Development environment software
American National Standards Institute ANSI C	Development environment software
Assembler	Development environment software
AWK	Development environment software
B-Method	Development environment software
Beginner's all-purpose symbolic instruction code BASIC	Development environment software
Bigloo Scheme	Development environment software
Call-processing language CPL	Development environment software
Clipper	Development environment software
Code munger software	Development environment software
Computer On-line Real-time Applications Language CORAL 66	Development environment software
Event-driven State-machines Programming	Development environment software
Forth	Development environment software
Gambit Scheme	Development environment software
Haskell	Development environment software
ICON programming language	Development environment software
Interface definition language IDL	Development environment software
Interstate connection ICON	Development environment software
List processing language LISP	Development environment software
Logo	Development environment software
Microsoft ESP SDK	Development environment software
Microsoft Extensible Application Markup Language (XAML)	Development environment software
MUMPS M	Development environment software
Pascal	Development environment software
Programming language one PL/I	Development environment software
Progress OpenEdge ABL	Development environment software
Scheme	Development environment software
Source code migration software	Development environment software
String oriented symbolic language SNOBOL	Development environment software
Tier generator software	Development environment software
Web service definition language WDSL	Development environment software
Xerces2 Java Parser	Development environment software
Canu	Development environment software
Logo design software	Development environment software
Adobe Systems Adobe Acrobat	Document management software
IBM Content Manager	Document management software
Teradata FastExport	Document management software
Virage VS Archive	Document management software
IBM Notes	Electronic mail software
Microsoft Exchange Server	Electronic mail software

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Microsoft Outlook	Electronic mail software
Microsoft Exchange	Electronic mail software
Atlassian Bamboo	Enterprise application integration software
BMC Software Control-M	Enterprise application integration software
Extensible markup language XML	Enterprise application integration software
IBM InfoSphere DataStage	Enterprise application integration software
IBM WebSphere	Enterprise application integration software
Jitterbit	Enterprise application integration software
Microsoft SQL Server Integration Services SSIS	Enterprise application integration software
Oracle Data Integrator	Enterprise application integration software
Oracle Fusion Middleware	Enterprise application integration software
SAS Data Integration Studio	Enterprise application integration software
SMSi Twister Data Integrator	Enterprise application integration software
Talend Open Studio	Enterprise application integration software
Jenkins CI	Enterprise application integration software
SAP NetWeaver	Enterprise application integration software
SAP Netweaver BW	Enterprise application integration software
WebFOCUS	Enterprise application integration software
Extensible stylesheet language XSL	Enterprise application integration software
Progress Sonic ESB	Enterprise application integration software
SAP BusinessObjects Data Integrator	Enterprise application integration software
Ab Initio	Enterprise resource planning ERP software
Ellucian Banner ERP	Enterprise resource planning ERP software
Informatica Corporation PowerCenter	Enterprise resource planning ERP software
Microsoft Dynamics	Enterprise resource planning ERP software
Microsoft Dynamics GP	Enterprise resource planning ERP software
NetSuite ERP	Enterprise resource planning ERP software
Oracle Fusion Applications	Enterprise resource planning ERP software
Oracle Hyperion	Enterprise resource planning ERP software
Oracle JD Edwards EnterpriseOne	Enterprise resource planning ERP software
Oracle PeopleSoft	Enterprise resource planning ERP software
Oracle PeopleSoft Financials	Enterprise resource planning ERP software
SAP	Enterprise resource planning ERP software
SAP Business Objects	Enterprise resource planning ERP software
SAP business and customer relations management software	Enterprise resource planning ERP software
SAP software	Enterprise resource planning ERP software
IBM Clarity Systems Clarity	Enterprise resource planning ERP software
Clarity Systems IBM Clarity	Enterprise resource planning ERP software
IBM Power Systems software	Enterprise system management software
Splunk Enterprise	Enterprise system management software
Microsoft Systems Management Server	Enterprise system management software
Ansible software	Expert system software
Apache Mahout	Expert system software
Apache Subversion SVN	File versioning software
Git	File versioning software
Apache Subversion	File versioning software
Version control software	File versioning software
Delphi Technology	Financial analysis software

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Oracle E-Business Suite Financials	Financial analysis software
Cost estimation software	Financial analysis software
Cost estimating software	Financial analysis software
ESRI ArcGIS software	Geographic information system
Geographic information system GIS software	Geographic information system
Salesforce Visualforce	Graphical user interface development software
Altia Design	Graphical user interface development software
Basis BBx VisualPRO/5	Graphical user interface development software
Graphical user interfaces GUI	Graphical user interface development software
Microsoft Visio	Graphics or photo imaging software
Adobe Systems Adobe Flash	Graphics or photo imaging software
Adobe Systems Adobe Creative Cloud	Graphics or photo imaging software
Adobe Systems Adobe Fireworks	Graphics or photo imaging software
Adobe Systems Adobe Photoshop	Graphics or photo imaging software
Trimble SketchUp Pro	Graphics or photo imaging software
Adobe Systems Adobe Creative Cloud software	Graphics or photo imaging software
Adobe Systems Adobe Illustrator	Graphics or photo imaging software
Corel CorelDraw Graphics Suite	Graphics or photo imaging software
Help desk software	Helpdesk or call center software
Human resource management software HRMS	Human resources software
Oracle Learning Management	Human resources software
Oracle Taleo	Human resources software
ADP Workforce Now	Human resources software
Supervisory control and data acquisition SCADA software	Industrial control software
TensorFlow	Industrial control software
Apache Avro	Information retrieval or search software
Data validation software	Information retrieval or search software
LexisNexis	Information retrieval or search software
Blink	Instant messaging software
Web browser software	Internet browser software
Microsoft Active Directory	Internet directory services software
Active directory software	Internet directory services software
Voice over internet protocol VoiP system software	Internet protocol IP multimedia subsystem software
Local area network LAN software	LAN software
CA Easytrieve Report Generator	Manufacturing execution system MES software
ESRI ArcGIS software	Map creation software
Geographic information system GIS software	Map creation software
Epic Systems	Medical software
MEDITECH software	Medical software
Healthcare common procedure coding system HCPCS	Medical software
Medical condition coding software	Medical software
Medical procedure coding software	Medical software
Altova MapForce	Metadata management software
Apatar	Metadata management software
CA Erwin Data Modeler	Metadata management software
CA Technologies ERWin Data Modeler	Metadata management software
Coglin Mill RODIN	Metadata management software
Data dictionary software	Metadata management software

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Data mapping software	Metadata management software
Data modeling software	Metadata management software
Flat File Checker	Metadata management software
HiT Software Allora	Metadata management software
IBM Rational Data Architect	Metadata management software
IBM Rational System Architect	Metadata management software
Informatica PowerCenter	Metadata management software
Interface Computers Data Loader	Metadata management software
Pentaho Kettle	Metadata management software
SAP PowerDesigner	Metadata management software
Scriptella	Metadata management software
Talend Data Fabric	Metadata management software
Visual Paradigm DB Visual ARCHITECT	Metadata management software
WisdomForce DatabaseSync System	Metadata management software
Informatica software	Metadata management software
Adaptive Metadata Manager	Metadata management software
Embarcadero ER/Studio XE	Metadata management software
Oracle Warehouse Builder	Metadata management software
SAS Data Integration Server	Metadata management software
Informatica Corporation PowerCenter	Metadata management software
Oracle Master Data Management MDM Suite	Metadata management software
SAP Master Data Management MDM	Metadata management software
Nearpod	Multi-media educational software
LogMeIn GoToWebinar	Network conferencing software
IBM Lotus SameTime	Network conferencing software
Slido	Network conferencing software
Slido interaction software	Network conferencing software
Nagios	Network monitoring software
Wireshark	Network monitoring software
Zabbix	Network monitoring software
Network intrusion prevention systems NIPS	Network monitoring software
Snort	Network monitoring software
Virtual private networking VPN software	Network security and virtual private network VPN equipment software
Firewall software	Network security and virtual private network VPN equipment software
Database security software	Network security or virtual private network VPN management software
Intrusion detection system IDS	Network security or virtual private network VPN management software
Virtual private networking VPN software	Network security or virtual private network VPN management software
Advanced business application programming ABAP	Object or component oriented development software
Apache Groovy	Object or component oriented development software
Apache Spark	Object or component oriented development software
C#	Object or component oriented development software
C++	Object or component oriented development software
jQuery	Object or component oriented development software
Jupyter Notebook	Object or component oriented development software
Microsoft ActiveX	Object or component oriented development software

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Microsoft Visual Basic.NET	Object or component oriented development software
Microsoft Visual C# .NET	Object or component oriented development software
Oracle Java	Object or component oriented development software
Practical extraction and reporting language Perl	Object or component oriented development software
Python	Object or component oriented development software
R	Object or component oriented development software
SAP PowerBuilder	Object or component oriented development software
Scala	Object or component oriented development software
Swift	Object or component oriented development software
Perl	Object or component oriented development software
Objective C	Object or component oriented development software
IBM ILOG	Object or component oriented development software
Smalltalk	Object or component oriented development software
Spring	Object or component oriented development software
Component object model COM software	Object or component oriented development software
Distributed component object model DCOM software	Object or component oriented development software
Eiffel	Object or component oriented development software
Rapide	Object or component oriented development software
ABC: the AspectBench Compiler for AspectJ	Object or component oriented development software
Collaborative Application Markup Language CAML	Object or component oriented development software
Common Lisp Object System CLOS	Object or component oriented development software
E++ pattern language	Object or component oriented development software
Embarcadero Delphi	Object or component oriented development software
Greatis Object Inspector	Object or component oriented development software
Microsoft Visual C#	Object or component oriented development software
Modula	Object or component oriented development software
Oberon	Object or component oriented development software
Objective Caml	Object or component oriented development software
PowerSoft PowerBuilder	Object or component oriented development software
Self	Object or component oriented development software
Hibernate ORM	Object oriented data base management software
IBM Informix	Object oriented data base management software
Object database management system ODBMS	Object oriented data base management software
PostgreSQL	Object oriented data base management software
Transact-SQL	Object oriented data base management software
Microsoft Visual FoxPro	Object oriented data base management software
Microsoft Office	Office suite software
Microsoft Office software	Office suite software
Apple macOS	Operating system software
Bash	Operating system software
C shell	Operating system software
Cisco IOS	Operating system software
DOS shell script	Operating system software
Hewlett Packard HP-UX	Operating system software
IBM AIX	Operating system software
Job control language JCL	Operating system software
KornShell	Operating system software
Linux	Operating system software

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Microsoft Windows	Operating system software
Microsoft Windows Server	Operating system software
Oracle Solaris	Operating system software
Perl shell	Operating system software
Red Hat Enterprise Linux	Operating system software
Shell script	Operating system software
Ubuntu	Operating system software
UNIX	Operating system software
UNIX Shell	Operating system software
Operating system software	Operating system software
Keras	Operating system software
Bourne Shell	Operating system software
Diagramming software	Pattern design software
Flow chart software	Pattern design software
Omni Group OmniGraffle	Pattern design software
Apache HTTP Server	Portal server software
Microsoft PowerPoint	Presentation software
Apache Airflow	Procedure management software
Microsoft Visio	Process mapping and design software
Visual Paradigm DB Visual ARCHITECT	Process mapping and design software
Flow chart software	Process mapping and design software
Computer Associates Log Analyzer	Program testing software
Database testing software	Program testing software
Hewlett Packard LoadRunner	Program testing software
JUnit	Program testing software
Selenium	Program testing software
Compatibility testing software	Program testing software
Defect tracking software	Program testing software
Dynamic analysis software	Program testing software
Functional testing software	Program testing software
IBM Rational PurifyPlus	Program testing software
Integration testing software	Program testing software
Interoperability testing software	Program testing software
Load testing software	Program testing software
Migration testing software	Program testing software
Mutation testing software	Program testing software
Personal computer diagnostic software	Program testing software
Recovery testing software	Program testing software
Regression testing software	Program testing software
Security testing software	Program testing software
Static analysis software	Program testing software
Stress testing software	Program testing software
System testing software	Program testing software
Test design software	Program testing software
Test implementation software	Program testing software
Unit testing software	Program testing software
Usability testing software	Program testing software
Debugging software	Program testing software

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Low-level debugger software	Program testing software
Source code editor software	Program testing software
Symbolic debugger software	Program testing software
Confluence	Project management software
Microsoft Project	Project management software
Microsoft SharePoint	Project management software
Oracle Primavera Enterprise Project Portfolio Management	Project management software
Atlassian Confluence	Project management software
37signals Basecamp	Project management software
Basecamp	Project management software
Microsoft Teams	Project management software
Microsoft Team Foundation Server	Project management software
Database capacity planning software	Requirements analysis and system architecture software
Unified modeling language UML	Requirements analysis and system architecture software
AcmeStudio	Requirements analysis and system architecture software
Architecture description language ADL	Requirements analysis and system architecture software
Popkin System Architect	Requirements analysis and system architecture software
Requirements management software	Requirements analysis and system architecture software
Marketo Marketing Automation	Sales and marketing software
Google AdWords	Sales and marketing software
Google Ads	Sales and marketing software
Microsoft Excel	Spreadsheet software
Intel Data Migration Software	Storage media loading software
Storage area network SAN software	Storage networking software
Amazon Simple Storage Service S3	Storage networking software
Encryption software	Transaction security and virus protection software
McAfee	Transaction security and virus protection software
Symantec	Transaction security and virus protection software
NortonLifeLock cybersecurity software	Transaction security and virus protection software
Virus scanning software	Transaction security and virus protection software
Customer information control system CICS	Transaction server software
BEA Tuxedo	Transaction server software
Microsoft Internet Information Service IIS	Transaction server software
Microsoft Internet Information Services (IIS)	Transaction server software
Sun Microsystems Sun ONE	Transaction server software
Web server software	Transaction server software
Cisco Systems Webex	Video conferencing software
Google Meet	Video conferencing software
LogMeIn GoToMeeting	Video conferencing software
Cisco Webex	Video conferencing software
Apple Final Cut Pro	Video creation and editing software
YouTube	Video creation and editing software
Wide area network WAN software	WAN switching software and firmware
Adobe Systems Adobe Dreamweaver	Web page creation and editing software
Google Sites	Web page creation and editing software
CoffeeCup The HTML Editor	Web page creation and editing software
Microsoft FrontPage	Web page creation and editing software
AJAX	Web platform development software

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Apache Struts	Web platform development software
Apache Tomcat	Web platform development software
Cascading Style Sheets CSS	Web platform development software
Django	Web platform development software
Drupal	Web platform development software
Dynamic hypertext markup language DHTML	Web platform development software
Enterprise JavaBeans	Web platform development software
Ext JS	Web platform development software
Extensible HyperText Markup Language XHTML	Web platform development software
Google AngularJS	Web platform development software
Hypertext markup language HTML	Web platform development software
JavaScript	Web platform development software
JavaScript Object Notation JSON	Web platform development software
LAMP Stack	Web platform development software
Microsoft Active Server Pages ASP	Web platform development software
Microsoft ASP.NET	Web platform development software
Microsoft ASP.NET Core MVC	Web platform development software
Node.js	Web platform development software
Oracle Application Express APEX	Web platform development software
Oracle Designer	Web platform development software
Oracle JavaServer Pages JSP	Web platform development software
PHP: Hypertext Preprocessor	Web platform development software
Ruby on Rails	Web platform development software
Spring Framework	Web platform development software
Backbone.js	Web platform development software
PHP	Web platform development software
React	Web platform development software
Google Angular	Web platform development software
Adobe Systems Adobe Flex	Web platform development software
BroadVision software	Web platform development software
Grails	Web platform development software
Groovy	Web platform development software
Apache Groovy	Web platform development software
Adobe ColdFusion	Web platform development software
Adobe Systems Adobe ColdFusion	Web platform development software
Microsoft Silverlight	Web platform development software
Progress WebSpeed Workshop	Web platform development software
Microsoft Word	Word processing software
3M Post-it App	Word processing software
Google Docs	Word processing software

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