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 AS/CS, SANS GIAC GCIH, MCSE, MCP+I, CNA  
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## Skills Inventory List

Development Experience =  
 Production =

<b>Skill</b>	<b>Years of Use</b>	<b>Year First Used</b>	<b>Year Last Used</b>	<b>Experience, Advanced Training or Certification</b>	<b>Notes / Logo</b>
ADS – Active Directory	12	1999	2017	Production	
AS/400	2	1998	2003	Production, R&D	
ASP.NET	2	2002	2011	Production	
Adobe	6	1996	2003	Production, R&D	
Adobe Acrobat	>20+	1996	2017	Production, & Instructor	
Adobe Photoshop	>10+	1996	2011	Production, & Instructor	
AIX	1	1997	1998	Production	
Amiga OS	>30+	1985	2017	Production	
Apache	>20+	1996	2017	Production	
Apple	>30+	1979+	2017	Production	MacOS, OS-X, and Server
Application Security	10+	1997	2017	Production, R&D, Instructor	
Assembly Language	1	1997	1998	Development Experience	
Audacious	>10+	1998	2017	Production	

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(XMMS, BEEP)					
Audacity	>15+	2001	2017	Production	
Auth0	1+	2009	2017	Production, R&D	
Beowulf Cluster Setup & Administration	5	1997	2003	Production	
BeOS	2	1995	2000	R&D	
Blue Team (InfoSec)	5	1998	2017	Production, R&D	
BIND (DNS) administration	>20+	1995	2017	Production	
BroadVision	4	1998	2001	Production, Training, & Trainer	BroadVision Inc. Advanced Training, Performance Tuning, Architecture, Design, Development and Administration 2.x, 3.x, 4.x, & 5.x,
Brio	2	2001	2003	Production	
C	8	1979	2012	Production, Training, R&D	CCI degree 1998
Business Continuity Planning	15+	1996	2017	Production	
Borland C++ (Turbo & Visual)	4	1996	2008	Production, Training, R&D	CCI degree training 1998
C#	1	2007	2008	Development	
CAD	3	1996	2016	User & Production	

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Caldera Linux	3	1996	2000	R&D	
CGI	>10+	1996	2008	Production, R&D	
CNA (Certified Netware Administrator)	Certification	1998	2006	Certification, Production.	Netware, Intranetware, BIND, eDirectory, Groupwise, etc. HotLabs Linux for Netware/Novell Training 2000
COBOL	3	1998	2000	Production, R&D, Training	CCI training in 1998
CRM	>15+	1993	2017	Production	
CSS	7	1997	2017	Production	
CVS	6	1994	2013	Production	
Checkpoint	5	2000	2012	Production	
Cisco	15+	1998	2015	Production	
Citrix Administration	5+	1998	2012	Production, Training	Citrix training while at Comspec 1998
ColdFusion	2	1999	2001	Production, R&D	
Collaboration Security	10+	1997	2017	Production, R&D, Training, Service Provider, Instructor.	
Compliance Management	10+	1996	2017	Production, R&D.	
Content Management Systems (CMS)	>20+	1997	2017	Production, R&D, Training, Instructor	
ClearCase	2	2000	2002	Production, R&D	

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ClearQuest	2	2000	2002	Production, R&D	
Cloud Use	17+	1999	2017	Production, R&D	
Cloud Administration	5+	1999	2017	Production, R&D	
Cloud Service, Provider, Platform Security	2+	2010	2017	Production, R&D	
Crystal Reports	4	1999	2002	Production	
Cyber Defense Initiative	Certification	2002	2002	Certification, Publication	SANS Institute Support for the Cyber Defense Initiative, GCIH
Cyber Security Strategist	10+	1997	2017	Production	
Cyber Threat Hunting, Intelligence, & Analytics	10+	1997	2017	Production, R&D, Instructor.	
DB2	1	1998	1999	CCI Degree Training & Production	
DBA	>20+	1996	2017	Production, Training, Instructor	Oracle, MySQL, MS SQL, Informix, SyBase, DB2, Postgresql
DHCP	>20+	1994	2017	Production	
DHTML	5	1998	2017	Production	
DNS	>30+	1982	2017	Production	(hosts.txt '79 to ~82/85)
DOS	>20	1982	2017	Production	
Data Analysis	>35+	1979	2017	Production	

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Data Modeling	>38+	1979	2017	Production	
Database Design	>36+	1981	2017	Production	
Database Management	>15+	1994	2017	Production	
Data Security	15+	1981	2017	Production, R&D, Training, Instructor	
Data Classification, Encryption, & Protection	15+	1981	2017	Production, R&D, Instructor.	
Delphi	2	1994	1996	Production	
Disaster Recovery	>35+	1981	2017	SANS Institute & Production	GCIH
Documentum	2	1997	1999	Production, R&D, Training	
Dreamweaver	2	1999	2000	Production	
Embedded, Control, and Internet of Things (IoT) device security	5+	1998	2012	Production, R&D.	
Enterprise Resource Planning (ERP)	5+	1997	2012	Production	
Endpoint Security	10+	1997	2017	Production, R&D	
Essbase	1	2002	2002	Production, R&D, Training	
Exchange Server (Microsoft)	6	1996	2003	Production	
e-commerce	>15+	1996	2011	Production	

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FORTRAN	1	1996	1996	Training, R&D	CCI Degree
FileMaker	3	1997	2007	Production, R&D, Training	
FileNet	2	1997	1999	Production, Training	
Firewall	>20+	1995	2016	Production, Training, R&D, Instructor	
Fireworks	2	1998	1999	Production	
Flash	4	1998	2002	Production	
FoxPro	1	1996	1998	Production	
FreeBSD	3	1998	2004	Production	
FrontPage	3	1997	2000	Production	
GCIH (SANS Institute GIAC Certified Incident Handler)	certification	2002	2006	Certification, Training, Publication	SANS Institute <a href="https://www.giac.org/certified-professional/hawke-robinson/103605">https://www.giac.org/certified-professional/hawke-robinson/103605</a>
Ghost (Symantec)	5	1996	2012	Production	
GIMP	>20+	1997	2017	Production	
Graphic Design	>20	1996	2017	Production	
HP-UX	3	1997	2002	Production	
HTML	>20+	1994	2017	Production	
IBM PC, XT, jr, AT		1982	1988	Production, Development	
IDS / Intrusion Detection Systems	>35+	1982	2017	Production, R&D, Training, Instructor	
Identity Management	10+	1996	2017	Production, R&D, Training,	

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				Instructor	
Incident Handling / Response / Incident Management	>20+	1996	2017	Production, Certification, R&D, Training	SANS Institute, GIAC Certified Incident Handler (GCIH) 2002
IP Filter (ipf)	5+	2002	2012	Production	
ipchains	10+	1997	2012	Production	
IP Firewall (ipfw)	10+	1994	2006	Production	
iptables	>15+	2000	2017	Production	
IPS / Intrusion Protection/Prevention Systems	>15+	1998	2017	Production	
IIS	>10+	1995	2011	Production	
Illustrator	3		2002	Production	
Information Management	>15+		2017	Production	
Information Security	>25+	1979	2017	Production, Certification, R&D, Training	SANS Institute GCIH certified 2002
Information Security Architecture	10+	1997	2017	Production, R&D	
Informix	1		1997	Production	
InstallShield	2		1999	Production	
Intrusion	>15		20017	Production	
J2EE	4		2009	Java Training through ITI 1999 & Production	

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JDBC	3		2009	Production	
JSP	2		2007	Production	
Java (began with beta of 1.0)	>20		2016	Java Training through ITI 1999 & Production	
JavaScript	7		2015	Production	
Kerberos	3	1997	2007	Production	Versions 4 & early versions of 5. Primarily with Solaris, Redhat Enterprise and other Linux and UNIX variants. Of course some use in Windows 2000+ ADS environments.
LAN	>30		2017	Production	
LDAP	9	1993	2017	Production	
Linux	>20		2017	Production	
Lotus Notes	2		2005	Production	
McCabe QA, IQ, Test, Java Parser	3		2003	Advanced training from McCabe, 2000, & Production	
MCP	certification		1998	certification	
MCP+Internet	certification		1999	certification	
MCSE	certification		1999	certification	
Mac	>30		2017	Production	
Mac OS / System	>20		2016	Production	
Mac OS X	>15	2001	2017		



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Mac OS X Server	5	1999	2008		
Mainframe	1		1995	Apprenticed through owner of G.T. Inc. Utah. 1995	McDonnell Douglas & Hewlett Packard
MediaWiki	>5	2003	2017	Production	
Microsoft Access	>10		2006		
Microsoft Excel	>20		2017		
Microsoft Exchange	6		2003		
Microsoft Office	>15		2017		
Microsoft Outlook	>10		2007		
Microsoft PowerPoint	>15		2017		
Microsoft Project	9		2011		
Microsoft Project Server / Central	5		2008		
Microsoft Visio	>12		2011		
Microsoft Windows	>20		2017		
Microsoft Word	>15		2017		
Multimedia	>20		2017	Production	
MySQL, MariaDB, MongoDB	>20	1996	2017	Production	
.NET	3		2011	Production	
Netfilter (ipchains/iptables/nftables)	>15+	1999	2017	Production	
Network Design	>15	1996	2017	Production	

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Network Engineer	>20+	1995	2017	Production	
Network Management	>20+	1996	2017	Production	
Network Security	>20+	1996	2017	Sans Institute GCIH	
"Next Generation" Network Security	2+	2010	2017	Production, R&D	
Networking	>35+	1980	2017	Production	
NetBSD Packet Filter (NPF)	1	2012	2013	Development / Testing / R&D	
Nginx	8	2009	2017	Production	
NodeBB	1	2016	2017	Production	
Novell	>10+	1995	2009	CNA 1998, Novell Linux 2000.	
OAuth	3	2009	2017	Production	
OOAD	>10	1995	2015	Production	
OOP	>15	1996	2015	Production	
OS/2	5	1992	2000	Production	
OpenGL	4	1996	2009		
Oracle	>7+	1999	2006	Production & Training	Oracle DBO/DBA training by Oracle while at Franklin Covey 1999
Oracle Applications	2	1999	2002	Production & Training	Oracle DBO/DBA training by Oracle while at Franklin Covey 1999
Oracle Database	>7	1999	2005	Production & Training	Oracle DBO/DBA training by Oracle while at Franklin

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					Covey 1999
Oracle Financials	2	1999	2001	Production & Training	Oracle DBO/DBA training by Oracle while at Franklin Covey 1999
Oracle Forms	2	1999	2001	Production & Training	Oracle DBO/DBA training by Oracle while at Franklin Covey 1999
Oracle Reports	3	1999	2003	Production & Training	Oracle DBO/DBA training by Oracle while at Franklin Covey 1999
Packet Filter (pf)	5	2002	2017	Production	
PDP-11	1	1979	1980	User & Developer experience	Through friends at University of Utah
PHP	7	1997	2017	Production, R&D	
phpMyAdmin	15+	1999	2017	Production	
PL/SQL	7	1997	2003	Production	
Perl	6	1996	2007	Production, R&D	
Plone (Zope)	13	2004	2017	Production R&D	
Point of Sale (POS)	>5+	1982	1999	Production, Developer	
PostgreSQL	8	1998	2017	Production, R&D	

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Project Management	>15+	1987	2017	Production & Training	Franklin Covey PM training 1999, Plus Project Management Institute 2000
Postfix	9	2000	2017	Production, R&D	
Publisher (MS)	5	1995	2002	Developer Experience	
Python	5	1998	2017	User, Developer & Production	
Qmail	>15	1998	2016	Production	
Quality Control Systems/Software	5	1999	2004	Developer & Production	
RADIUS	5+	1993	2005	Production	
RDBMS	>20	1995	2017	Developer & Production	
Rational Clearcase	3	1999	2002	Rational training while at Franklin Covey & Production	
Rational Rose	3	1999	2002	Rational training while at Franklin Covey & Production	
Red Team (InfoSec)	5	1998	2017	Production, R&D	
RedHat Interchange, MiniVend, Vend	>10+	1998	2012	Production	
RedHat Linux, Fedora, &	>20+	1995	2017	Production,	

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CentOS				R&D	
RedHat Enterprise Linux	9	2000	2009	Production	
Research (& Development)	>20+	1995	2017	R&D	
REXX (AREXX)	3	1990	1995	Development Experience	
Risk Management	>20+	1996	2017	Production	
Ruby	<1	2007	2007	Development Experience	
SAN / NAS (Storage Area Network / Network Attached Storage)	>5	1998	2017	User & Production	
Security Management	10+	1997	2017	Production, R&D, Training, Instructor.	
Security Operations	5+	1998	2012	Production, R&D, Instructor.	
SMS	3	2000	2003	Production	
SMTP	>20	1996	2017	Production	
SNMP	9	1996	2014	Production	
Software Development life Cycle (SDLC)	15+	1981	2017	Production, R&D, Training, Instructor.	
Security SDLC (S-SDLC)	5+	1998	2012	Production, R&D.	
SQL	>15	1995	2017	Production	

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SQL Server (Sybase)	2	1998	2000	Production	
SQL Server (MS)	>10	1996	2009	Production	
Servlets	>5	1997	2004	Production	
Shell (csh, bash, z, k, etc.)	>25	1995	2017	Production	
SilverStream Application Server	3	1998	2001	Advanced Training through Silverstream while at ITI. 1999.	SilverStream development and administration 1.x, 2x, 3x.  Silverstream User Group Elected Webmaster 1999.
Software Development	>30	1979	2016	Production, R&D, Training	PDP-11, Apple II, CCI, McCabe, Novell, Franklin Covey, Rational, Oracle, Sun, Microsoft, QA training 1996 through 2001
Software Testing (formal processes)	>20	1996	2016	Production, R&D, Training	CCI, McCabe, Novell, Franklin Covey, Rational, Oracle, Sun, Microsoft, QA training 1996 through 2001
Sun Solaris	>10	1997	2007	Production, R&D, Training, Certification	Sun Solaris 7 Admin Certification Part I 2003  & Production
Suse Linux	>20+	1996	2017	Production	
Suse Enterprise	>5+	2001	2015	Production	
Systems	>30+	1981	2017	Production,	

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Administration				R&D, Training, Certification	
Systems Analysis	>20+	1995	2017	Production	
Systems Engineering	>20+	1996	2017	Production	
Systems Integration	>20+	1996	2017	Production	
T-SQL	7	1998	2011	Production	
TCP/IP v4	>30+	1981	2017	Production, Training, & Instructor	Novell Hotlabs TCP/IP Troubleshooting with Protocol Analysis, 2000
TCP/IP v6	2	2007	2009	Development & User Experience	
Tcl	2	2000	2003	Developer & Production	
Technical Support	>30	1981	2017	Production	
Technical Writer	>10	1998	2014	Production	
Toad	4	1999	2003	Production	
Tomcat	4	2000	2004	Production	
Training / Instructor	>20	1993	2017	Utah State Instructor Certification Training Program 1995	
Ubuntu Linux	>10	2005	2017	User, Developer, & Production	Kubuntu and other variants too.
UML	6	1998	2010	Developer & Production	

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UNIX	>20	1996	2016	Production	
VA Linux	4	2000	2004	Production	
VERITAS	2	2001	2002	Veritas training 2001 & Production	
VMS	1	1999	2000	Production	
VM - Virtual Machine technologies	>15	1998	2017	Production	Vmware, VirtualBox, Xen, etc.
VoIP	8	1999	2017	User & Production	
VoIP Management	5	1999	2014	Production	
VPN	>15	1998	2017	Production	
Visual Basic (Microsoft)	4	1996	2000	Developer & Production & CCI degree	
Visual C++ (Microsoft)	2	1996	2001	Developer experience & CCI degree	
Visual Studio (Microsoft)	3	1997	2012	Developer & Production	
WAN	>20	1996	2017	Production	
Website Administration					
Web Design	>20	1996	2017	Production	
Web Development	>20	1996	2017	Production	
WebLogic	2	1999	2001	Production	



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Windows 2000	8	1999	2007	Production	
Windows 2000 Server	>10	1999	2011	Production	
Windows 2000 Advanced Server	3	2002	2005	Production	
Windows 2003 Server	5	2003	2010	Production	
Windows 9x/Me	>10	1995	2009	Production	
Windows for Workgroups	5	1992	2000	Production	
Windows NT	>10	1995	2005	Production	
Windows Vista	6	2006	2015	Production	
Windows XP	>10	2001	2015	Production	
Wireless	>15	1997	2017	Production	Wifi, Satellite, DSSS spread spectrum, 802.11x, 900 Mhz, 2.4 Ghz, 5 Ghz, etc.
WISP (Wireless Internet Service Provider)	5	2002	2007	Production	Creator/owner MaladNet WISP, acquired by Axxess.net.
WordPress	3	2010	2017	Production	
X.500	2	1993	2000	Production	
XML	4	1999	2011	Developer & Production	
XSL	1	2006	2007	Production	
XSLT	1	2006	2007	Production	
Zope	>15	1999	2017	Production	

