

Sheldon Linker, Ph.D.
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Extensive experience in virtually every area of software & IT. I work well with coworkers and customers, and am a good documenter. As a manager, I tend to be ahead of schedule and under budget. I've supervised testing to aerospace, commercial, and other standards. Note that there is overlap because I accept part-time assignments.

WORK EXPERIENCE

2016-Present: University of Maryland Global Campus:

Accomplishment: My student typically earn A grades.
Role: Adjunct professor
Subject matter: Software engineering (Part-time, online only)

1983-Present: Linker Systems:

Accomplishments: Designed & implemented the VoiceLink compiler & executive. Designed, managed, and wrote most of Animation Stand™ and its drivers. Developed the prover, compiler, and executive of the JCB™ language for the JCB-English™ and JCB-Robotics™ systems (see patents for more info).

Roles: Programmer, Project manager, VP

Technologies: 68K assembly, Abacus, Accom, ARTI, BCD, C, C++, Diaquest, Fujitsu scanners, GL, HP scanners, Irix, ITI, J2EE, Java, JSP, Knowledge Base, Lyon-Lamb, Mac, MacVac, NoSQL, Prolog, Rhetorex, Sanyo recorders, SCSI, SGI, Sony recorders, Unix, Windows

2021: Darena Solutions

Accomplishments: Programmed various SAAS interfaces for databases and designed a database
Role: Programmer
Technologies: .Net Core, Entity Framework, C#

2014-2021: Piaget Autonomous Modeler

Accomplishments: Designed and implemented the Java version of the Premise compiler & executive. Served in an advisory capacity for the C# extended version, as well as programmed some components and optimized for space & speed.

Roles: Programmer, Advisor

Technologies: Java, C#, internal NoSQL database

2014-2020, 2002-2008: Printing Industries Benefit Trust:

Accomplishments: Improved accuracy of the reporting system. Enhanced the speed of the system (some modules by 9,000%). Added new features. As a project manager, got the web version of their system online. Optimized work flow. Added ACA and EDI functionality.

Roles: Project manager, Programmer, Business Analyst

Technologies: ASPX, Borland Builder, C++, C#, CSS, Crystal Reports, EDI, ETL, Google Storage (cloud), Google Vision, HTML, Kofax, NoSQL, Oracle, PL/SQL, SQL-Server, T-SQL, WinForms

2015-2017, 2007-2012: Friar Tux Shops:

Accomplishments: Enhanced the types of information the inventory system and web-sites can handle.

Role: Programmer

Technologies: ASP, Crystal Reports, CSS, ETL, HTML, J2EE, Java, SQL Server, T-SQL, VBScript

2015, 2012-2013: Saddleback College:

Accomplishment: Taught computer science & information technology

Role: Adjunct Professor

Subject matter: C++, C shell

2013-2016, 2011, 2001-2009: Delta Dental:

Accomplishments: Improved accuracy of the reporting system. Enhanced the speed of the system (some modules by 180,000%). Improved work-flow. Built new web-sites.

Roles: Programmer, Business analyst

Technologies: Access, ASP, C, C/SQL, CL, Crystal Reports, DB2, EDI, EJB, ETL, i/Series (same as AS/400), J2EE, Java, JavaScript, JSP, Oracle, RPG, Pro*C, SharePoint, SQL, UML, Visio, Visual Basic, XML

2015: Cast & Crew:

Accomplishment: Helped to clear some of their backlog

Role: Programmer

Technologies: C, ISAM (NoSQL), Perl, RPT, Shell script, SQL, Unify

2012-2013: Toshiba:

Accomplishment: Created and modified web pages as requested.

Role: Programmer

Technologies: Ajax, CSS, HTML, Java, JavaScript, JQuery, JSP, NodeJS, SQL

2011-2012: Ness:

Accomplishment: Devised general programming skill test. Screened and rated applicants.

Role: Job screener & tester

Technologies: Various languages as the jobs required

2011-2012: PayPal (Ebay):

Accomplishment: Implemented and enhanced functionality in the "Payments 2.0" system.

Role: Programmer

Technologies: C, C++, Hibernate, Java, Linux, NoSQL, Perl, Python, Spring, SQL, YACC

2011: Fair Isaac Company (FICO):

Accomplishment: Enhanced the speed of the fraud detection system, allowing a larger percentage of transactions to be fraud-tested.

Role: Programmer

Technologies: Ant, C, C++, EJB, Java, Make

2010-2011: Digital Insight (Intuit):

Accomplishments: Found and corrected dozens of ways of cracking or disturbing the banking system.

Roles: Programmer, Security analyst

Technologies: AIX, C, C++, HTML, IngresSQL, J2EE, Java, JavaScript, Perl, Shell scripts

2009-2010: Western Dental:

Accomplishments: Planned ways of improving the system.

Role: Consultant, Programmer

Technologies: AlphaBasic, Amos/L, ISAM (NoSQL)

2008-2009: Cesar Millan Inc.:

Accomplishment: Designed and implemented their next generation of sales & shipping web-site.

Roles: Programmer, Work-package manager

Technologies: CSS, HTML, JavaScript, LAMP, MySQL, PHP, XML

2008: Innovation By Design, Inc.:

Accomplishments: Corrected bugs. Improved speed & memory usage. Improved user interface look & usability. Fixed web-site problems.

Role: Programmer, QA

Technologies: AWT, CSS, HTML, Java, JavaScript, Swing

2006-2008: Kofax:

Accomplishments: Ported the system from SQL Server to Oracle and DB/2. Optimized performance of the SQL Server version.

Roles: DBA, Programmer

Technologies: C++, C#, COM, DB/2, Linux, Mainframes, .Net, Oracle, SQL Server, T/SQL, Unix, Visual Basis, Windows

2006: DirecTV:

Accomplishments: Found bugs in the system, located the bugs (for others), and fixed bugs. Designed system improvements. Improved the proprietary file system.

Roles: Analyst, Programmer, QA

Technologies: C, C++, HTML, Java, JNI, Linux, Shell script, SOAP, UML, XML

2004-2005: *Name withheld due to nondisclosure agreement:*

Accomplishment: Completed a requirements analysis and a plan to mitigate the maintenance problem caused by code cloning.

Roles: Business analyst, Consultant

Technologies: Access, Cobol, DEC Alpha, ISAM, Linux, NoSQL

2004-2005: Diversified Counseling Services, Inc.:

Accomplishments: Took the business model from paper and file drawers to computerized.

Roles: Business analyst, DBA, Programmer, Project manager

Technologies: Crystal Reports, Java, PostgreSQL, Swing

2005, 1999-2001: Digital Music Network:

Accomplishments: Implemented a real-time virtual jukebox.

Role: Programmer

Technologies: ASP, Linux, Windows, XAudio

2001: Experian:

Accomplishments: Programmed and tested on a big-data correlation project.

Roles: Programmer, QA

Technologies: C, Cobol, JCL, MVS, s/390, SQL, Teradata, TSO

Earlier: Xerox, Irvine Apartment Communities (Irvine Co.), XonTech, Northrup Grumann, Aqua-4, ARFco, Teletrac, Baxter Healthcare, FTG Data Systems, Strata, CCH Computax, DentiCare, CSTS, Inc., Orthodyne Electronics, EECO, Microillusions, Aerojet General, Ceeco/Investment Concepts, Arslanian & Associates, VB Machines, Teledyne, Alpha Microsystems, TRW, Loglan Institute, UCLA, UC Berkeley, JPL:

Accomplishments: Located and fixed bugs in Xerox high-end printer series, Irvine Co.'s billing & tracking system, and a factory production control systems. Designed and/or implemented a fast multiprocessor messaging system using specialized hardware, a specialized color-match system, an image processing/editing system that processes faster than real time, a light-pen driver, a number of paint & animation programs, remote laser printing, a number of accounting systems, an automated factory control system which controls a number of steel casting mills, robots to perform microscopic welding, autopilot/flight planning & control firmware, a real estate management system, thermal & hydraulic test control systems, a some new file systems, some database systems, a kernel message-passing system for some special-purpose operating systems, and some compilers. Updated a number of database systems. Optimized the scheduler/dispatcher for a special-purpose OS. Enhanced a plot package. Developed Loglan's first SLR-1 grammar. Taught classes. Tutored programming & math. Completed the APL executive for the Meta-4. Assisted in gene-mapping research using image processing. Produced 3D maps of this part of the galaxy.

Roles: Analyst, DBA, Mathematician, Programmer, Project manager, Researcher, Teacher, Technical project manager, Tutor, Work-package manager

Technologies: 68K assembly, 707/C-135, 80x86 assembly, Access, Accom, AlphaBasic, AMOS/L, AN/AYK-14 assembly, APL, Basic, Bliss, C, CMS-2, Cobol, DBase, DOS, Embedded, ESP, F-16, Fortran 2-90, HTML, IBM 1130, Irix, ISAM, HP/UX, JES2, LTN-3500, Mac, Motif, MVS, NoSQL, Oracle, PDOS, PL/1, Pro*C, RS/6000, s/360, s/390, SCSI, SGI, Shells, Solaris, Space Shuttle, SQL, TCP/IP, Unix, VAX, Visual Basic, VMS, Windows, XView, YACC

EDUCATION

Ph.D. in Computer Science and Software Engineering from Auburn University.

M.S. in Computer Science from the University of Illinois at Springfield.

B.S. in Computer Science from Thomas Edison State College, New Jersey.

OTHER

Kofax certified.

Patent #s 8,177,022 & 9,710,763, relating to linguistics, logic, robotics, and AI.

Citizenship: US
Clearance: Secret but inactive
Methods used in running projects: Agile, Extreme, Spiral, and Waterfall (each as appropriate to the goal)
Learned, but not yet used on a job: Angular, AWS, Bootstrap, CICS, Confluence, Django, Docker, Drupal, DynamoDB, Elastic Search, Erwin, Go, GraphQL, Groovy, Informatica, Jenkins, Jira, JMS, Kafka, Maven, MongoDB, MQ, PowerBI, R, React, Redux, Ruby, SASS, Scala, Spark, Struts, Tableau, ThreadX, Typescript, Vue, WCF, WordPress, WPF, XAML, XQuery, XSLT