Lester Amack

Senior Developer, consultant - Applications - Electro Motive Diesel La Grange,IL

Madison, WI - Email me on Indeed: <u>indeed.com/r/Lester-Amack/535413433634c51e</u>

30 years software development experience, 15 years Visual Studio .NET (C#, VB.NET, Windows Forms, Aps.NET Web); 30 years Visual Studio (C++, VB, COM/ActiveX/ATL, COM+); 20 years RDMS (SQL Server, Redbrick, Oracle: queries, DTS); 5 years Java; 3 years Unix; 15 years HTML; 7 years JavaScript, JQuery, Ajax, SSIS, JSon, Web Services
Authorized to work in the US for any employer

WORK EXPERIENCE

Senior Developer, consultant - Applications

Electro Motive Diesel La Grange,IL   -   La Grange, IL - August 2015 to Present

for diesel locomotive data retrieval, conversion, storage, reporting, web user interface
• Visual Studio 2013, SQL Server 2012, C#, C++ with CLR, C, MFC, MVC, ASP.NET, JSon, Ajax, Kendo UI, TCPIP, Web Services
◦ Back End
* Multi-threaded MFC app for TCPIP connection to locomotives, data retrieval, complex logic to handle numerous configurations
◦ Front End
* data conversion (C, C++, C#, SSIS, Web Services)
* data storage (SQL Server, SSIS, Web Services)
* web user interface (MVC, ASP.NET, C#, SSIS,SSRS, Kendo UI, JQuery, Ajax, JSon)

Senior Developer, consultant

Flextroncis   -   Buffalo Grove, IL - May 2015 to August 2015

-SCADA application for Valve corporation, automated (robotic) creation, assembly, and testing of product
• Visual Studio 2015, C#, WPF
◦ Back End
* WPF for administration console UI
* SQL Server 2014 database
• Stored procedures and views
* Multi-threading (Task-based) operations running 10 queries per second
* TCP Socket communication to send/ receive messages between back and front end applications running on different machines
* Calculate and report OEE statistics
* Create reports
◦ Front End
* WPF application for displaying machine operating status to plant floor operators
* TCP Socket communication
• GIT for version control

04/014-09/14 Allstate, Northbrook, IL
Senior Developer, consultant - Developed web application for insurance claims, determining an ordered, weighted list of preferred methods of inspection of claim-related property. Used:
• MS Word for design document

- IBM Rational Rose Modeler for UML modeling
○ Model/View/Presenter architectural pattern
- Visual Studio 2012, C# and ASP.NET implementing MVP
○ Back End
* Model and Presenter with all business logic
* Oracle 11g DB for information storage/retrieval
- PL/SQL stored procedures
○ Front End
* View with all display logic
* ASP.NET, JavaScript, HTML, CSS, and Ajax
- TDD: Fakes/shims for unit testing
- Team Foundation Server for version control

Freelance
Ladysmith Movie Lovers Group - Ladysmith, WI - April 2001 to August 2013

WI
While making repairs and upgrades to a property I purchased in Ladysmith, WI, I also did software development for a Ladysmith Movie Lovers Group, Microsoft MVC framework web application for movie (DVD) data storage and retrieval using:
- Visual Studio 2012, C#, ASP.NET implementing MVC
- SQL Server 2012 for data storage/retrieval.
- JavaScript, HTML, CSS, and Ajax for front end

Senior Developer, consultant
Xylem - Morton Grove, IL - July 2011 to April 2013

- developed web application for data warehousing and data mining for inventory optimization. Lead developer for a team of 2 developers. Used:
- MS Word for design documents
- Visio for object modeling
- Visual Studio 2012, VB.NET, ASP.NET for application development
- SQL Server 2012 for data storage/retrieval
○ TSQL stored procedures
- ASP.NET, JavaScript, HTML, CSS, and Ajax for front end
- NUnit for unit testing
- Visual Source Safe for version control

Senior Developer, consultant
Quadtech - Sussex, WI - November 2010 to April 2011

- Performed research and development for project to enable printing text on paths (ellipses, circles, arcs, Bezier curves, etc.) with any installed font (family, style, decoration) and a range of resolutions, 8 mSec or less per call. Used:
- MS Word for design document
- Visual Studio 2010, C#, WPF, C++, Silverlight, Expression Blend for application research and development
○ Designed, created and evaluated a WPF Windows Forms solution using C# and PathListBox control, which could not meet 8 mSec timing requirement
○ Designed, created and evaluated a Win32 DLL solution using C++ and GDI+ which met all requirements.
* Paths were implemented using parameterized formulas.
* Line-through and underline text decorations were implemented by drawing appropriately offset paths.
- Team Foundation Server for version control

Senior Developer, consultant

Motorola   -   Libertyville, IL   -   September 2007 to October 2010

- Developed Windows Forms applications for creating and running test scripts, used for mobile phone testing. Team lead, mentor to 1 junior developer and 2 interns. Used:
• MS Word for Use Case and design documents
• MS Word and HLP file for users' guide and context hints
• Visio for object-oriented UML diagrams (block diagrams, logic flow charts, class diagrams)
• Visual Studio 2005, C#, VB.NET, C++ for application development
 ◦ Multi-threading
 ◦ USB, serial port, and Bluetooth connectivity
• Java for communication with some phones.
• Web Services for access to remote testing services.
• SQL Server for storing/retrieving test scripts and test results
• SubVersion for version control
• TDD: Used fakes and shims for new development

Senior Developer, consultant - Software for automobile emission testing stations

ApPlus Autologic   -   Custer, WI   -   June 2007 to September 2007

Used:
• MS Word for design document
• Visual Studio 2005, C# for application development
• Serial communication for interfacing with a video camera
• 3rd party OCR software to "read" incoming vehicle license plate number
• SQL Server for data storage/retrieval

Senior Developer, consultant

Allstate   -   Northbrook, IL   -   January 2007 to June 2007

- Designed and created a web service extension to Outlook Web Access to allow delegation (a feature lost between Outlook and Outlook Web Access). Used:
• MS Word for design document
• Visual Studio 2005, C++, C# for application development
 ◦ C++ and MAPI used to create COM object
 ◦ C# used to create web service
• Visual Source Safe for version control

Senior Developer, consultant

Motorola   -   Schaumburg, IL   -   September 2006 to January 2007

- USGS satellite terrain data conversion to proprietary Hydra files, containing elevation data for use in field operations to determine how antenna towers should be positioned and configured. Used:
• MS Word for design document
• Visual Studio 2005, C++, C# for application development
• Visual Source Safe for version control

Senior Developer, consultant

M&S Technologies   -   Skokie, IL   -   September 2005 to April 2006

Vision Testing Software
Lead developer for team of 2 developers. Analyzed business needs and prepared detailed designs, translated into a C# .NET GDI+ Windows Forms assembly that displays a variety of eye test charts at user-selectable magnifications. Tested, debugged, and modified software, modified algorithms to improve operating efficiency

and speed, mentored other developer with technical guidance, and ensured that project deadlines were met. Created and implemented unit tests. Used:
- MS Word for design document
- Visio for UML modeling
- Visual Studio 2005 for application development
- NUnit for unit tests
- Visual Source Safe for version control

Senior Developer, consultant
Black Dot Group   -   Crystal Lake, IL   -   September 2004 to October 2005

- Designed and created software for creating automotive after-market parts catalogs. Used:
- MS Word for design document
- Visual Studio, C++, VB 6 for application development
- XML and XSLT for data imports and exports
- SQL Server for data storage/retrieval
  ◦ Load tables from Packages
  ◦ TSQL stored procedures
  ◦ Queries to find overlaps and gaps
- Visual Source Safe for version control

Senior Software Engineer, employee - retail sales data analysis applications
ACNielsen   -   Schaumburg, IL   -   April 1996 to September 2004

Analyzed business needs, gathered requirements for new product enhancements, prepared use case documents using MS Word, prepared object-oriented UML diagrams (block diagrams, logic flow charts, class diagrams), and translated these into software for retail sales data analysis; created automated build and test processes (using Rational Robot.) Code was written in ANSI standard C++, VB, C#, VB.NET, VBA, and Java, for Windows desktop and Windows Forms applications and UNIX command shell applications, Web used interface. SQL Server, Oracle, Redbrick, and ACNielsen n-dimensional databases were involved. Tested, debugged, and modified software, prepared documentation in MS Word and as .hlp files, used multi-threading and improved algorithms to increase operating efficiency and speed, mentored other developers for technical guidance, ensured that best practices were used for full software development life cycle, and ensured that project deadlines were met. All designs, code and documentation were stored in version control software.

Senior Software Engineer
ACNielsen   -   Schaumburg, IL   -   April 1996 to September 2004

Created zero-footprint Web OLAP application using NITRO and MSMQ.

Tech lead and database administrator
Header File Rebuild and Refresh   -   2004 to 2004

C++ in-process server and C# .NET COM+ business objects using SQL Server database and ADO. Created a C++ in-process server that interacted with 3rd party push-technology software as part of a system designed to allow updating of very large local header (index) files

database administrator
ACNielsen   -   2001 to 2004

64 bit multi-threaded application with C++/Unix/Informix/SAS business objects and VB/Java GUI. Created classes in ANSI C/C++ that implemented business logic forming part of a data warehousing system. Wrote K Shell scripts that performed many business logic operations, and invoked SAS modules and 3rd party software on a UNIX platform. Developed Java user interface for data mining operations.

Developer
- 2000 to 2003

C++, VB, VBA. Created classes in VB 6.0 that made use of the COM objects, enabling users to perform OLAP queries on a Redbrick database, then create a report using VBA classes (suitable for MS Office documents), and once satisfied, to save all the steps for regenerating the report as a template.

Tech lead and database administrator for VB report engine
- 2000 to 2000

later transitioned to VB.NET Windows Forms) business objects and GUI, object oriented design, SQL Server. Database tuned for report generation.

ACNielsen Workstation Info - 1996 to 2000

Converted 16-bit Win 3.1 OLAP (On-line Analytical Processing) application to Win32 application. Then designed and implemented C++ ATL COM objects to convert Win32 application to component business objects.
4) Nitro (2000-2001) Implemented OLAP application using AWI components and GUI within MS Excel, PowerPoint and Word using VBA and Windows Forms application.

Software Engineer, employee
Medi-Mouse Systems   -   Crystal Lake, IL - May 1995 to November 1995

Designed and developed 16-bit Win 3.1 applications for hospital emergency room patient management software using Visual C++, Dbase database.

Software Engineer, consultant
WorkFlow Partners   -   Chicago, IL - December 1994 to April 1995

Debugged Borland C++ info gathering systems

Software Engineer, employee
Erickson Analytical Manufacturing, Inc   -   League City, TX - February 1993 to August 1994

Design, construction, and testing of computer based life support equipment. OOD C/C++ DOS application controlling real-time operation water purity analyzer, RS232 communications, A-to-D converter and DMA. Created a graphical and tabular display for analyzer data. Wrote Phillips/Signetics assembly language code for an 87C752 micro controller operating real-time pressure control valves. For Astro International, League City, TX, designed and developed a real-time Win 3.0 application that collected data from an infrared sensor, integrated readings, and plotted the results. The GUI program was developed using OOD Win API, SDK and C/C++.

Computer Systems Manager, Software Engineer
American Public Works Association - Chicago, IL - May 1991 to February 1993

employee - Program manager for MicroPAVER system, a PC-based pavement management system. Programmed modifications using C and FORTRAN. Designed and installed Novell 3.11LAN connecting Windows/PCs and Macs. Created an integrated membership/accounting system in FOXPRO for the Public Works Historical Society.

Engineering Assistant
Underwriters Laboratories - Northbrook, IL - 1986 to 1991

employee -testing electrical devices for use in Hazardous Locations. Wrote engineering utility applications in VAX, FORTRAN, and MS DOS.

Non-commissioned officer

U.S. Air Force, Castle AFB, CA - 1982 to 1986

Avionics systems, B52G and H aircraft (navigation computers, radar, video.) Honorable discharge, final rank E4, Top Secret security clearance.

EDUCATION

Learning Tree
2001

OO Analysis and Design

Rational University
1998

BSEE

Illinois Institute of Technology   -   Chicago, IL
1990

Community College of the Air Force   -   Maxwell AFB, AL
1986