

Keith Wedinger

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Introduction

An accomplished software architect with demonstrated success designing and implementing quality software solutions using a wide range of technologies.

Summary of Qualifications

- 28+ years of experience working on a wide variety of projects using a large mix of software technologies.
- Extensive experience working with teams large and small across multiple functional boundaries including development, testing, marketing and customer support.
- Excellent track record of delivering projects on schedule and with superior quality.
- Exceptional ability to learn new technologies quickly and apply them productively.

Technical Skills

Languages	Java, Kotlin, JavaScript, Swift, C/C++, PHP, Ruby, Shell Scripting
Programming	Java EE, JDBC, Hibernate, Spring Boot, Apache Open Source libraries, XML, XPath, HTML5, CSS, SASS, JSON, jQuery, Knockout, Node.js, PhoneGap/Cordova, REST, macOS SDK, iOS SDK, watchOS SDK, Android SDK, Google Cloud Messaging, Windows SDK, .NET
Development Tools	IntelliJ IDEA, Eclipse, Xcode, Visual Studio, Pentaho Data Integration, Ant, Gradle, Maven, Grunt, Nexus, Hudson CI, Jenkins CI, Bamboo, Git, GitHub, Bitbucket, Git Stash, Mercurial, CVS, Subversion, JIRA, Rational Team Concert
Development Processes	Agile, Waterfall
Testing	JUnit, TestNG, Jasmine, HP Quality Center
Databases	DB2, Microsoft SQL Server, MySQL, Oracle, SQLite
Operating Systems	Unix/Linux, Windows client and server, macOS, iOS, watchOS, Android

Professional Experience

Principal Consultant II/Technical Director, Improving: Columbus, OH, 2016 - Present

Projects:

Abercrombie & Fitch

- Work with front end development team to implement the redesign of the checkout portion of the customer facing website. Technologies used: HTML5, SASS/CSS, JavaScript and internally developed MVC framework.
- Work with back end/server development team to improve checkout related APIs implemented in Java and deployed to IBM WebSphere Commerce using IBM DB2.
- Redesign resulted in significantly improved checkout experience for guest and VIP customers and significantly improved and reusable codebase.

OSU Health Plan

- Design and implement improvements and new features for LinkToHealth web application which is implemented in Java using Hibernate, Seam framework, MySQL and is hosted on Wildfly. Improvements allow members and care coordinators to more easily manage health plan details.
- Design and implement ETL jobs and transformations using Pentaho Data Integration. New jobs and transformations use a combination of MySQL scripts and translation logic to efficiently move large amounts of data within the LinkToHealth web application database and to/from other systems/services that integrate with the LinkToHealth web application.
- Implement improvements to existing SSRS reports and new SSRS reports that allow users to more effectively view and analyze data within the LinkToHealth web application database.

Other Responsibilities:

- Columbus office coordinator for ImprovingU, an internal training program offering technical and non-technical courses for fellow associates. Responsible for collecting course ideas, finding and selecting course instructors and all course logistics.
- Participate in prospective client sales and estimation meetings to help secure new client opportunities.
- One on one mentoring of technical consultants.
- Technical community involvement including attending and presenting at user groups and conferences.

Director, Technology Solutions and Solutions Architect, Leading EDJE: Dublin, OH, 2012 – 2016

Projects:

- Architect, design and develop Android native mobile app and corresponding server solution to allow service technicians to intelligently diagnose and service vehicles for a large trucking company client. This solution allows service technicians to collect vehicle information via Bluetooth, propose tests to isolate vehicle issues and then, propose repairs based on all data gathered. Completed diagnostic sessions are posted to and saved by the server solution via REST APIs. This solution will allow service technicians to more efficiently and effectively service vehicles and will significantly improve vehicle up time.
- Design and develop wearable POC iPhone app and companion Apple Watch app in Swift that allows service techs to manage their work orders and track their work flow through each work order. POC was demonstrated in front of several current and potential clients to demonstrate expertise in the mobile and wearable technology spaces.
- Architect, design and develop hybrid/web based mobile app for iOS and Android phones using Cordova that allows mortgage closing company to more efficiently manage closing assignments for their notaries. Notaries are notified of new assignments and assignment changes via push notifications. Notaries can also manage new and existing assignments. All closing updates and supporting data are pulled from/pushed to closing company's server solution via REST APIs.
- Design, develop and test mobile app to automate workflow for 1200+ service technicians for a large client. This includes creating and managing work orders and managing time sheet clocking. Application developed using HTML5, CSS, jQuery, jQuery Mobile, Knockout, web database (SQLite based), web local storage plus other supporting JavaScript libraries. Application built and deployed to Android tablets as native application using PhoneGap. Application uses jQuery and Ajax to integrate with server via REST API based web services.
- Design and develop an iOS native mobile app for the Leading EDJE sales team to calculate consultant margins.
- Develop Google Cloud Messaging based push notification support for native Android mobile app that allows client's personnel to be notified of significant equipment events in a timely manner and allows same personnel to act on those events.

Other Responsibilities:

- Participate in mobile client sales meetings to help sell and secure new mobile app solutions opportunities
- Work with CTO to develop and evolve technology target roadmap for future client engagements.
- Present at conferences to demonstrate technology leadership and expertise.
- Write technology articles for the company monthly newsletter and for the website.

Advisory Software Engineer, IBM (formerly Sterling Commerce from 2000-2010): Dublin, OH, 2000 – 2012

Design, develop and test numerous new features for IBM Sterling B2B Integrator (B2BI), a Java based multi-enterprise integration software suite used worldwide by Fortune 500 companies, and Gentran Server Windows (GSW), a C++/MFC based enterprise software suite used for order processing and data translation.

Projects:

- Led team of 3 developers using Agile process to design and develop Java/XML API layer for new OSGi based B2BI product. API layer used by multiple OSGi bundles to provide inter-bundle integration.
- Designed and developed Rational Team Concert build infrastructure for new OSGi based B2BI product that encompasses multiple Maven projects. Infrastructure allows for parallel development inside Eclipse for large team spread across globe and supports continuous build and test to validate product quality.
- Investigated and resolved/fixed over 100 defects in past year across all B2BI functional areas to help ensure on-time high quality delivery of first B2BI release that conforms to IBM product guidelines.
- Designed and developed Maven based OSGi deployment project used by other developers to develop and test Spring based OSGi components inside and outside Eclipse.
- Part of multinational team that developed and tested iPhone application that allows customers to manage and monitor B2BI remotely.
- Led team of 3 developers to design, develop and unit test CHIPS real-time payment processing using Java for message translation and validation and C++ for message mapping.
- Designed, developed and unit tested file transfer routing functionality using Java and the Drools business rules engine. Rules engine used to determine and implement routing policies for trading partners.
- Developed and executed file transfer routing performance tests to verify acceptable performance for a high volume of trading partners and messages across multiple communication protocols.
- Worked with development team members in multiple locations to ensure proper integration of routing functionality with the user interface and to ensure functionality was developed and tested on time and with superior quality.
- Designed, developed and tested Oracle SQL statement batching support for document translation feature. Worked with product support team to ensure that functionality met customer performance requirements. Changes resulted in a significant performance improvement
- Designed, developed and tested trading partner information deletion support, ACH-CTX payment transaction support and EDI digital signature support for SI using Java, SQL, SQL transactions and PKI security technology.

- Designed, developed and tested RosettaNet e-commerce document parsing, document building, communication and security support for GSW and SI using C++, MFC, Java, XML, XPath, SQL and S/MIME. RosettaNet is an XML based e-commerce standard primarily used by the electronic components industry. Testing resulted in functionality being certified as compliant by the RosettaNet standard consortium.
- Ported Unix based SI installation application written in Java and shell scripts to Windows using Java, and Windows shell scripting. New installation utility allows product to be installed and used on Windows based servers.
- Ported GSW GUI applications from C++ and MFC to C# and the .NET Framework as part of .NET platform evaluation for future product development.
- Performed customer support for SI and GSW by reproducing, debugging and fixing customer issues. Involved effective communication with customers and with other support team personnel.

Technical Analyst, The Limited, Inc.: Columbus, OH, 1998 – 2000

- Developed, tested and deployed TCP/IP based credit card authorization functionality, sales reporting applications and IT management utilities for Bath and Body Works point-of-sale system. Technologies used: C/C++, Visual Basic, MFC, Win32 API, Winsock, Perl, Windows NT 4.0.

Software Engineer III, Diebold, Inc.: Canton, OH, 1996 – 1998

- Developed and tested Rich Text Format based text box functionality, banking rules functionality and PIN verification functionality for automated teller machine software to be deployed by a large banking customer their ATM network. Involved extensive direct communication with the banking customer to verify requirements and to ensure software met the requirements. Technologies used: C/C++, IBM OpenClass Library, MFC, OS/2, Windows NT 4.0.

Staff Programmer, Lexmark International, Inc.: Lexington, KY, 1989 – 1996

- Designed, developed and tested network printer management application for Windows 3.1. This application allows customers to remotely manage their printers connected over a variety of protocols. Designs for network printer application result in the award of six U.S. patents.
- Ported same application from Windows 3.1 to Windows 95 and Windows NT 4.0 during joint development effort with Microsoft.
- Technologies used: C/C++, MFC, Win32 API, Win16 API, Windows (3.1, 95, NT), OS/2.

Patents

- [5,699,494](#) Remote replication of printer operator panel
- [5,720,015](#) Method and apparatus for providing remote printer resource management
- [5,727,135](#) Multiple printer status information indication
- [5,819,015](#) Method and apparatus for providing remote printer resource management
- [5,905,906](#) Method and apparatus for configuring multiple printers on a network
- [6,112,256](#) Method and apparatus for configuring the physical setup of multiple printers on a network

Education

University of Cincinnati, Cincinnati, OH

Bachelor of Science with Honors in Computer Science, 1989

Conference Presentations

- A Swift introduction to Swift (pun intended) - Presented at Beer City Code, Columbus Code Camp and M3
- Effectively Documenting your Development Project - Presented at CodePaLOUsa, Path to Agility, DogFoodCon and Columbus Code Camp
- Hybrid or Native - Which Should Be Your Mobile Strategy and Why - Presented at M3
- Implementing Push Notification Support in your Android App - Presented at Columbus Code Camp, CodeMash and That Conference
- Real World Mobile App Development with PhoneGap - Presented at Columbus Code Camp, StirTrek and M3

Other Interests

- Designed, developed and tested PHP/MySQL based website framework used by several high school sports teams to publish their websites. See Sciotofootball.com for an example.