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Accomplishments

- Assisted with development and debugging of SixFlags 2.0 release and AAA travel reservation app.
- Developed Bose Android app using Bluetooth SPP (Serial Port Protocol) and Bluetooth LE communications to connect to Bose consumer electronic devices.
- Developed Android LanguageLesson app to allow anyone to create language lessons and become a language teacher.
- Developed Android ActivityTracker smartphone app for tracking exercise.
- Authored DBUtility – a Java utility to ease access, data transfer and data comparison between different database systems.
- One of original designers and programmers for backend Verizon Account Management Report and Analysis web portal.
- Multiple repeat contracts with Verizon and National Grid indicates the high value of work I bring to the companies I work with.

Capabilities

- Develop and code Android applications.
- Design and create program specifications for in-house and contract programmers
- Lead programming efforts and provide program expertise to project programmers.
- Extensive IBM DB2 SQL and database design expertise.
- Document user requirements for application development
- Conduct routine maintenance and debug operations on application software.

Software Experience

• Android	• SQLite	• Android Studio/ Eclipse IDE
• DB2	• Java	• IBM RAD
• AIX(Unix)	• DB2 Procedure Language SQL	• z/OS Unix System Services
• AIX(Unix) scripting	• z/OS	• QMF
• XML/XPath	• MQ Series	• VSAM
• COBOL	• DB2 Visual Explain	• CICS
• CLIST/REXX	• TSO	• AllFusion Gen

Authored Software

LanguageLesson Android App – Teach a Language! Learn a Language! Start with an Excel spreadsheet to structure your language lessons. Load the lessons to this Android app. You now

have the tools to create and teach a language. The app handles text, audio and video. Teach German, French, Mandarin, Klingon – it is all up to you!

Available on Google Play store:

<https://play.google.com/store/apps/details?id=com.fisincorporated.languagetutorial>

ActivityTracker – Created to learn Android programming but a handy app for keeping track of distance covered during exercise. Keep track of mileage categorized by activity - walking, hiking, biking, cross country skiing, etc. and location. Includes GoogleMaps and charts to summarize your exercise. Email your GPS trace to your buddies to make them envious of what you did on your day off!

Available on Google Play store:

<https://play.google.com/store/apps/details?id=com.fisincorporated.ExerciseTracker&hl=en>

[DBUtility](#) – Java GUI application developed that handles:

- Volume testing of stored procedures
- Data comparison (database definitions or user data) across different relational database systems (test to prod DB2, DB2 to Oracle, Oracle to MySQL, you name it)
- Data transfer between different relational databases
- Used at major telecommunications and utility company
- Available at <http://fisincorporated.com/dbutility/>

Experience

Feb 2016 – Jan 2017 Android developer

Raizlabs, Boston MA

- Assisted with development and debugging of SixFlags 2.0 release. Work involved new Activities/Fragments, and API calls to SixFlags server and processing JSON responses.
- Continued with development and debugging of AAA travel reservation app. Work involved resolving various API/JSON issues and developing new API calls using Retrofit/SimpleXML
- Helped debug SiteSpect Android A/B testing framework.
- Scrum/Agile methodology used with Jira to help prioritize work and track progress.

Aug 2014 – Dec 2015 Android developer

Bose, Framingham, MA

- Designed and developed communication code using SPP (Serial Port Protocol) and Bluetooth LE for detection used in Bose Connect Android app.
- Worked with firmware developers to test and resolve communication issues.
- Developed 'manager' layer between Android UI and communication layer to handle UI to Bose consumer device communication and request/response logic.
- Coded UI elements per UI design for Bose consumer devices.
- Provided UI design direction for refactoring UI layer.
- Scrum/Agile methodology used with Jira to help keep project on track.

Nov 2013 – July 2014 Not A Job, An Adventure (Sabbatical for Android development)

- Created [LanguageLesson](#) app so that anyone can create and teach a language. Code posted on GitHub at <https://github.com/efoertsch/LanguageLesson>. For more info on app see <http://fisincorporated.com/language-lesson/>
- Created [ActivityTracker](#) app to record distance covered during exercise. Code posted on GitHub at <https://github.com/efoertsch/ActivityTrackerAS>
- Continuing Android development and programming capabilities

Apr 2011 – Nov 2013 Application Development/Production Support
TJX, Framingham, MA

- Provided analysis and resolution of various production issues relating to Merchandise Payables (MP) system
- Modified MP COBOL programs, DB2 Stored Procedure Language stored procedures, and Java batch programs to support TJX's entry into eCommerce
- Created new or updated existing AIX(Unix) scripts along with updated COBOL programs, DB2 stored procedures and Java batch applications for production support or new applications.
- Provided technical advice to the group on DB2 and AIX issues.

Apr 2007 – Dec 2010 Senior Programmer/Analyst
Verizon, Boston, MA.

- Implemented new functionality for Verizon Enterprise Center Billing Report and Analysis web portal via DB2/Java stored procedures, Java applications, COBOL, and PLI programs.
- Created and maintained USS (Unix System Services) Java apps using IBM RAD IDE and Websphere.
- Coded numerous complex SQL for VAM Server bill reporting back end.
- Analyzed and fixed poor performing SQL
- Performed general maintenance on DB2 stored procedures
- Worked with internal and external customers troubleshooting and implementing fixes for data issues in billing repository.

Jan. 2006 – March 2007 Senior Programmer/Analyst
National Grid, Westborough, MA

- Updated All Fusion:Gen CICS Time Entry System for consolidation of purchased utility company.
- Added/modified AllFusion:Gen programs for continuing operations.
- Updated Peoplesoft SQR programs for conversion of Peoplesoft HR V8.0 to V8.9.
- Coded critical Java app to allow integration of Peoplesoft Payroll with G/L.
- Coded interface between CICS Time Entry System with Peoplesoft General Ledger System using MQ communication.
- Enhanced and used DBUtility program to identify inconsistencies in table layouts and data for both Peoplesoft upgrade and utility company consolidation.
- Used DB2 Visual Explain to help improve DB2 SQL query performance.

June 2005 – December 2005
CVS, Programmer/Analyst
Woonsocket, RI

- Developed new and modified COBOL CICS and batch Cobol and Easytrieve programs for inventory system
- Developed new and modified VSAM files for inventory system

Jan 2005 - Apr 2005 Senior Programmer/Analyst
Verizon, Boston, MA.

- Performed general maintenance on DB2 stored procedures
- Performed troubleshooting of data issues in billing reporting system
- Modified DB2 table/views due to table changes
- Developed DB2 UDF's to format data for presentation
- Analyzed poor performing SQL using DB2 Explain and modified as needed to improve performance
- Enhanced Java DBUtility for full regression testing of stored procedures, and SQL comparisons of data and disseminated to co-workers
- The Java app was released to all of Verizon IS via internal tech support web site.

Nov 2004 – Jan 2005 Sabbatical
Java/VB/Continuing Education/

- Created VB app for accepting XML requests and return XML formatted stock price information
- Created Java classes to process (via Xerces and JDOM java classes) XML stock information and pass to Jess/JOONE
- Worked on Jess expert system (<http://herzberg.ca.sandia.gov/jess/index.shtml>) software and interfacing with Java objects for stock evaluation
- Worked on JOONE (Java Object Oriented Neural Engine) and Java objects to extend JOONE I/O and field stock information to neural net. Java classes developed to
- Work done posted at <http://www.fisincorporated.com/programmingpage.htm>
- Realized I still needed a day job

June 2003 - October 2004 Senior Programmer/Analyst
National Grid, Westborough, MA.

- Made Advantage:Gen code modifications to Time Entry System to interface with new Peoplesoft GL system using MQ.
- Developed COBOL XML generator and parser for CICS and batch processes.
- Developed CICS transactions with MQ Series interfaces for passing XML to/receiving replies from Peoplesoft Financials.
- Developed Advantage:Gen external action blocks to get around CICS/Advantage:Gen limitations and to interface to XML and MQ routines.
- Developed Java HTTP/Peoplesoft app due to incompatibility between maintenance levels of Peoplesoft Financials and Peoplesoft HR. The Java routine handled the HTTP communications between Financials and HR.
- Made DB2 database changes to support new GL accounting requirements.

Jan 2001 - May 2003 Senior Programmer Analyst
Verizon, Boston, MA.

- Performed analysis, functional and DB2 database design for backend Enterprise Center Billing and Reporting system
- Designed and implemented COBOL DB2 stored procedures as interface between web front end and billing system.
- Designed reporting system using dynamic SQL to greatly reduce the time and coding needed to implement reporting system for retrieval, filtering and sorting of billing information.
- Developed Java GUI application on own time using Swing/JDBC for running and testing DB2 stored procedures. Also included batch facility for load testing and production turnover installation testing.
- Developed DB2 UDFs to handle specific data reporting requirements not handled by SQL alone.
- Developed program specs, monitored program development and provided tech support to Verizon India software development group
- Used Visual Explain to check DB2 access paths and modified SQL and indexing as needed based on explain results.

**July 1999 – December 2000 Senior Program Analyst
HRIS Incorporated, Hopkinton, MA**

- Performed system analysis, functional specs, database design and implementation of SQL Server 2000 stored procedures for web portal testing application
- Performed analysis, design, and batch and CICS programming to implement a web based employee benefits system
- Performed analysis, design and programming changes to Integral HR DB2 tables and CSP code to modify the update the system to a date effective system
- Created COBOL subroutines to interface with Integral for implied HR changes
- Designed and coded CICS transactions to interact with Visual Basic and SNA Transaction server middleware for web based front end
- Performed analysis, design and CICS/DB2 programming to implement web based Time Entry System

**Jan 1997 – October 1999 Senior Programmer/Analyst
New England Electric (now National Grid)**

- Analyzed and made code and DB2 changes to maintain Time Entry system implemented in Cool:Gen (now Advantage:Gen).
- Handled and coordinated upgrade of IFE 5.3 to Cool:Gen 4.1.
- Performed Y2K analysis, design, coding and system testing.
- Provided Time Entry Support during company merger activity

**April 1996 – Jan 1997 Senior Programmer/Analyst
Putnam Mutual Funds**

- Designed and implemented code to receive and process payrolls from outside vendors for employee stock purchase system.
- Worked with business unit and major external customer to refine functional requirements, DB2 design, program specs, test plans for production implementation and support.

**August 1995 – March 1996 Senior Programmer/Analyst
Dun and Bradstreet**

- Maintained and debugged Assembler and COBOL DB2 programs used in Dun and Bradstreet's Millenium operating system
- Provided phone support and assistance to Dun and Bradstreet customers in implementation and use of Millenium/DB2. Documented customer DB2 problems for later analysis and debugging.

Prior work experience available on request.

Education

- 1998 Worcester PolyTechnic Institute (continuing ed)
Artificial Intelligence
- 1997 Brandeis University (continuing ed)
Advanced Java 1.1
- 1986 Cleveland State University
Masters of Computer and Information Science
- 1976 Pennsylvania State University
Bachelors of Science in Chemistry