

DAVID MCKOSKEY

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Technical Skills

Programming Languages:

Object–Oriented Languages: Java (15 years), Java Spring, Java Web Services (1 year), ANSI C++, STL, Microsoft Visual C++ / MFC (8 years)

Procedural Languages: C, Perl, awk, sed, Korn shell script (10 years), Microsoft VBA (3 years)

Functional Languages: MIT Scheme, ANSI Common LISP, PROLOG, ML '97 (3 years)

Database Technologies:

Database Systems: Oracle 12c (9 years), Sybase (3 years), Microsoft SQL Server 2008 (2 years) MySQL (10 years), PostgreSQL (3 years)

Database Languages : SQL (17 years), Oracle PL/SQL (10 years), Pro*C (4 years), Transact-SQL (T-SQL) (5 years)

Database Supporting Tools: sqsh (3 years), gvim (9 years)

Markup Languages: XML, XSLT, XSL-FO, Topic maps, RDF, HTML, L^AT_EX(11 years)

Operating Systems: Windows 2000/Vista/XP/7 (15 years), Red Hat / Debian / Ubuntu Linux, Solaris UNIX (13 years)

Office Applications: Microsoft Office (Word, Excel, Access, Outlook)

Enterprise Tools: Apache Tomcat, Eclipse, IntelliJ, Git, ant, make, Orsyp \$Universe (4 years), Autosys (5 years)

Work Experience

Thomson Reuters Tax & Accounting, A Thomson Reuters Business—Eagan, MN

Senior Software Engineer: October 5, 2015 – Present

Wrote, debugged, and maintained Angular JS / Angular 6 user interface.

Wrote, debugged and maintained Groovy database API and client-server application.

Supported other team members efforts, including mentorship.

Technologies: Oracle 12c, Oracle PL/SQL, Groovy, Hibernate, GORM, Angular JS, Angular 6 (TypeScript), Node.js, Gulp, Grails, IntelliJ, Microsoft Team Foundation Server, Perl

AmTrust Customer Services—St. Louis Park MN

Software Engineer: May 1, 2013 – August 1, 2015

Contributed to team-level Spring projects for credit card activation and balance transfer applications

Migrated enterprise web sites from IBM WebLogic to JBoss

Wrote installation scripts and stored procedures to support new products.

Technologies: Oracle 12c, PL/SQL, Perl, Java Spring, Java Web Services, Groovy, Grails, Git, JBoss

CPP North America—St. Louis Park MN

Software Engineer: March 1, 2011 – May 1, 2013

Created and supported enterprise database for purchase insurance and fraud protection products.

Revised stored procedures to support new products and customers.

Contributed modules to Java Spring projects, including secure bank applications.

Supported other team members efforts, including mentorship.

Technologies: Oracle 9i, PL/SQL, Perl, Java Spring, Java Web Services, JBoss

ServeMinnesota—Minneapolis MN

Independent Consultant: March 2013 – July 2015

Consulted with executive leadership about Reading Corp student progress reports and other business intelligence goals.

Wrote executive level summaries, requirements specifications, and design documents for a data warehouse and ETL system.

Consulted with a local recruitment firm to find expert software developers to implement the specifications and design.

Technologies: PHP, Zend Server, MySQL, Microsoft Office, L^AT_EX

FindLaw, Thomson Reuters Business—Eagan, MN

Lead Software Engineer: June 2010 – March 2011

Created and supported ETL processes for reporting FindLaw web site traffic metrics.

Wrote applications to profile ETL processes for selective optimization.

Set up and maintained a reference web site for off-hours support.

Technologies: Oracle 10g, PL/SQL, Perl, Java, Korn shell, SUSE Enterprise Linux Server 9

TEK Systems Inc. (Contract with Cargill)—Hopkins, MN

Contract Software Engineer: May 2010 – June 2010

Created Perl modules and a CGI interface for LDAP user authentication and certification.

Technologies: Perl, CGI, Oracle 10g, Oracle SQL, Oracle PL/SQL, RedHat Linux.

Gatto & Associates (Contract with Wells Fargo)—Minneapolis, MN

Contract Software Engineer: December 2009 – February 2010

Wrote PL/SQL packages to replace legacy Perl functionality.

Documented support procedures for new team members.

Technologies: Perl, Oracle 10g, Oracle SQL, Oracle PL/SQL, Toad, Ant, Autosys

TEK Systems Inc. (Contract with Plato Learning)—Bloomington, MN

Contract Software Engineer: July 2009 – December 2009

Re-engineered an online testing system to consolidate server farms. Implemented and supported new batch student enrollment functionality.

Implemented transaction replication (a publish / subscribe architecture) for five transactional databases and a reporting server.

Profiled and optimized queries for second generation software (PLE 2.0).

Technologies: Perl, mod_perl, Apache, MySQL, Red Hat Enterprise Linux, Toad, Microsoft SQL Server 200, 2005, and 2008

ProTech Solutions Inc. (Contract with Thomson Reuters)—Eagan, MN

XML Programmer: June 2009 – July 2009

Authored and edited XML pages for navigating the Westlaw Cobalt product.

Wrote Perl applications to search pages, reformat page indentation, and verify page content.

Technologies: Perl, XML, XMLSpy, GVIM

Infinite Campus Inc.—Blaine, MN

Software Engineer: September 2008 – May 2009

Worked with team of developers to maintain and extend the InfiniteCampus school administration system. InfiniteCampus is a three-tiered web application: thin client interface (XML, XSLT, Java servlet), business logic (Java), and database (SQL Server 2005).

SQL Development included SQL scripts, stored procedures, and triggers.

Performed SQL Server 2005 database administration tasks (backup, restore)

Wrote or revised state-level student and staff reports. These reports are used for state and federal funding for K-12 education.

Technologies: Microsoft SQL Server 2005, SQL, Transact-SQL, Java 1.5, Eclipse, Apache Tomcat, XSLT, XSL-FO

BTM Global Solutions, LLC—Minneapolis, MN

Software Architect: April 2008 – September, 2008

Provided software support for Forsythe Appraisals home appraisal software.

Wrote a technical requirements specifications for a new online home appraisal system.

Worked closely with development team in Viet Nam to coordinate software development and deployment.

Performed SQL Server 2005 database administration tasks (backup, restore)

Implemented and administered a Bugzilla software defect tracking and resolution system.

Technologies: Microsoft SQL Server 2005, Perl, Java, Microsoft Visual FoxPro 9.0

Reuters America, LLC—St. Paul, MN

Developer: March 2005–March 2008

Developed a system for auditing customer data views. Development included Product Functional Specification document, database design, application code, and support documentation.

Performed various tasks to maintain and extend distributed data warehouse. Duties included revising bond scoring rules, bond reports, module use analysis, implementing parameter control databases, and off-hours support.

Technologies: Sybase, Transact-SQL, Perl, Mason, Apache web server, mod_perl, UNIX, Korn Shell, Autosys

Fairview–University Medical Center—Minneapolis, MN

Quality Consultant: December 2003–January 2005

Wrote Requirements, Design, and Implementation specification document templates for system-wide use in developing software applications and reports. None previously existed.

Met extensively with users to design two applications: a client-server application for tracking National Patient Safety goals and tasks, and an application to track JCAHO Patient Tracer audit results.

Created client-server application for tracking National Patient Safety goals and tasks.

Wrote an application to parse pharmacy error logs and report results in a Microsoft Excel spreadsheet. Results were sent to pharmacy staff, nursing units, and senior management.

Automated "Teamwork and Safety Climate Survey" administration and processing.

Technologies: Java 1.4, Swing, MySQL, Perl.

Architecture Technology Corporation Inc.—Eden Prairie, MN

R&D Engineer: March 2001–December 2003

Wrote Small Business Innovative Research (SBIR) and Broad Agency Announcement (BAA) grants, soliciting R&D funding from the United States Department of Defense, Army, Navy, and Air Force. Proposals included case analysis, workflow analysis, software design, and project planning.

Contributed to Phase II research and development for contracts already awarded to ATC. Included extensive software and database design, including software use cases.

Created graphical applications for visualizing, editing, and comparing ontologies. Ontologies are conceptual maps of system resources which allow users to select needed resources without specifying details such as resource location or data type.

Wrote an application to optimize Java object code obfuscation sequence. Implemented as part of an anti-software-reverse-engineering tool suite and IDE.

Technologies: Java 1.4, Swing, MySQL, XML, Topic Maps, Perl, Perl/TK, UNIX, AIX, Linux.

Linguistic Technologies Inc.—Edina, MN

Senior Application Developer: September 1998–March 2001

Wrote technical specifications and documentation for all research tools developed to support third-party speech recognition software. These specifications served as interoperability standards by which the tools or their modules were combined and extended.

Served as administrator, chief architect, and developer of a lexical (word) database.

Wrote an application to clean and condition text files for language models required by automatic speech recognition software.

Created applications to assist linguists in customizing speech recognition language models by physician, medical specialty and error frequency to improve recognition accuracy.

Technologies: ANSI C/C++, Microsoft Foundation Class (MFC), Microsoft VBA, Java 1.1, Perl, Oracle 8i, SQL, UNIX.

SuperValu Inc.—Eden Prairie, MN

Programmer Analyst: April 1997–September 1998

Wrote and maintained scripts for creating financial reports.

Streamlined financial reporting process, reducing report development time by 50%.

Implemented automatic report restart procedure, reducing support calls by an estimated 20%.

Designed and implemented a UNIX change control system consisting of RCS tools and Korn shell scripts. The system handled archive synchronization, error checking and application review. The software was adopted as a company standard.

Technologies: ANSI C, Perl, Korn shell, RCS, Oracle 7.2, SQL, Oracle Pro*C, Oracle PL/SQL, UNIX

Education

University of Minnesota—Minneapolis, MN

Graduate Studies

Master of Science in Computer Science (1997–2000)

Doctor of Philosophy minor in Cognitive Science (1997–2000)

Master of Arts in Linguistics (2004–2007)

University of Saint Thomas—Saint Paul, MN

Undergraduate Studies: 1988–1993

Bachelor of Arts majors in Mathematics, Psychology and French

Bachelor of Arts minors in Philosophy and Computer Science

References

Available upon request.