RAYMOND A. MATTHES

311 N 100 W
Heber City, Utah 84032
cell: 303.522.7227 email: ray.matthes@gmail.com web: https://raymatthes.github.io/resume

Software developer with decades of experience in the computer industry specializing in design and implementation

Master of Science in Computer Science; Oracle Certified Associate Java SE Programmer (OCA); Oracle Certified Professional Java SE Programmer (OCPJP)

June 2013 - Present   **ICD Tech,** Golden, Colorado

Implemented financial applications using java, javascript, groovy and grails. Applications include SaaS web sites, mobile and desktop. Used a MacOS development environment in order to deploy on Redhat Linux servers. Used Agile/Scrum methodology to manage work. Development lead within a group of (20) developers. Gained experience with Groovy, Grails, Java, Spring, Oracle, Hibernate, Spock, Shell scripting, Ruby, Git, Jenkins, Kubernetes, Docker, Vagrant, Puppet, Graphite, Zenoss, rpms, zshell, Rally, react, jsx, javascript, electron, es6, jquery, node.js, webpack, jest, yarn, jqgrid, ag-grid, bootstrap, wordpress, xwiki, selenium, cucumber and gherkin.

Jul 2011 - Jun 2013   **Return Path Inc**, Broomfield, Colorado

Implemented email processing projects within a team using agile software development methods. Developed Java, Perl, and PHP software on Mac and Linux for deployment to production Centos and Solaris systems. Gained experience with technologies such as Apache Hadoop, HBase, ActiveMQ, Lucene, Camel, Spring, ElasticSearch, Oracle, Jython, JRuby, Apache Webserver, Git, Gerrit, Jenkins, Rally and Sprintly.

Jan 2007 - Jul 2011   **Acxiom Corporation**, Broomfield, Colorado

Implemented an exam based user authentication web service with a team of (6) developers. The product supported interoperability with client platforms including Java, C#, Ruby, Perl, and ColdFusion. As team leader, I was responsible for design and implementation of a driver record system and an upgrade of a court records system. These products were delivered on time using technologies and methods that included Agile/Scrum, Java 6, Eclipse, JBoss, Seam, JEE5, EJB 3.0, JPA, JAX-WS, JAAS, JMS, Tomcat, MS SQL Server, Oracle, SoapUI, JUnit, Groovy, Hudson/Jenkins, Maven, Subversion and SourceForge Enterprise Edition.

Mar 2005 - Jan 2007   **EggFusion**, Boulder, Colorado

Designed, developed, and tested a web based egg order management system. System was deployed on time to support customer invoicing. Developed client library for upload of plant printing statistics. Employed open source technologies including Java 5, Spring MVC, Velocity, Hibernate, Tomcat, MySQL, Sequoia (C-JDBC) Database Clustering, Eclipse, JUnit, Emma code coverage, Javascript, and AJAX (Direct Web Remoting and Google Web Toolkit) web pages. Enhanced customer facing web pages on the company's marketing web sites with Javascript and Flash Actionscript integrations. Led technology evaluations of MySQL Replication, Spring, Hibernate, AJAX, EJB 3.0, JavaServer Faces, JBoss, Seam, Sun's Java Studio Creator, Ruby on Rails. Established and administered CVS and Scarab issue tracking systems for the company.

Jan 2005 - Mar 2005   **Ping Identity (via KForce)**, Denver, Colorado

Maintained and developed new features for company web sites, customer facing and intranet. Web sites were developed with Java JSP technology and WebWork, a Java web application development framework. Gained experience with PostgreSQL, Hibernate, SiteMesh, Eclipse Web Tools Platform, Tomcat, and Subversion.

Aug 2004 - Dec 2004   **Level3 Communications (via TechPartners)**, Broomfield, Colorado

Maintained and developed new features for a network router provisioning system. Development assignments included work with Java XML service integration, Java Swing GUI development, maintaining Perl applications, Oracle PL/SQL development, and Solaris 9 system administration. Established an automated build system using CruiseControl for a team of 10 developers.

Feb 2001 - Aug 2004   **InsightAmerica**, Broomfield, Colorado

v27

Designed, developed, tested, and documented a national driver's license record search system. The system provided service for 80+ business partners, processing 1.5M driver records and $5M revenue annually. Implemented on a Java 2 platform, by a team of 5 developers, the server software is capable of interfacing to (40) United States driver license information systems via SOAP (Web Services), HTTP, FTP, Telnet, Socket, VT100 & 3270 emulation, dialup, SDLC, and tape cartridges. Gained experience designing XML / DTD interfaces, Eclipse, Ant, Junit, Apache Tomcat, IIS, Axis, Swing, JDOM, JSSE, JDBC, and CVS source code management.

Designed, developed, and tested system for acquiring the State of Colorado driver record database, receiving daily updates, and distributing records via web services and batch FTP. Utilized Tomcat, Axis, Eclipse, JUnit, and Ant open source tools.

Setup FreeBSD server to use for Bugzilla issue tracking system. Administered system and setup automatic backup scripts. Developed C++ data conversion tools using Microsoft MFC libraries with Microsoft Visual Studio.

Aug 2000 - Feb 2001   **Rational Software (via Brava Services)**, Boulder, Colorado

Maintained the requirements management application, RequisitePro, on Windows systems. Gained experience with Visual Smalltalk, internationalization issues, and the Rational suite of software development products including ClearCase, ClearQuest, and Rational Rose.

Jul 1997 - Nov 2000   **The Baan Company (contractor)**, Golden, Colorado

Maintained and developed features for the sales automation application, Classys, primarily on Windows systems. Ported product from VisualWorks Smalltalk 2.5.2 to 3.0. Experienced with DCOM server implementation that allowed Visual Basic client access. Owned responsibility for software integration/build/packaging of the product. Gained experience in the MS Visual C++ and Visual Basic environments.

Developed intranet web and email servers using VisualWorks Smalltalk for reporting and update of legacy MS SQL Server customer support database. Used Linux, Solaris, and NT Server platforms for development and production. Used XML technology to lend flexibility to the RDBMS.

Jul 1996 - Jul 1997   **US WEST (via The Blackstone Group)**, Denver, Colorado

Developed C++ software to enable client access to corporate telecommunications facilities and customer database systems. Developed Java applet to allow client monitoring of server health and status via the web. Developed DCE clients and unit test servers. Software development platforms included HPUX and Solaris operating systems. Development tools included Rational (Atria, PureSoft) products, Purify, Quantify, and PureCoverage; CVS; RCS; xemacs and HP SoftBench.

Nov 1993 - Jul 1996   **IBM Government Systems**, Houston, Texas

Developed C++ retail applications on the OS/2 platform for the United States Postal Service. Owned responsibility for programming business logic for retail system accounting. Development tools included VisualAge C++, CMVC, and the OS/2 PM debugger.

Developed VisualAge Smalltalk data distribution application on the OS/2 platform. This application functioned as a front-end GUI for IBM's NetView DM/6000 server. Application was successfully demonstrated to USPS personnel. Developed Transportation Planning applications on OS/2 and AIX (UNIX) platforms. Worked in a VisualAge Smalltalk Envy team environment to design and develop object-oriented applications with features including TCP/IP and DDE communications, GIS integration, and DB2 Database persistent storage.

Developed X/Motif C code while integrating NCSA Mosaic with the SNAP system on an AIX platform. Provided HTML building blocks to allow browser capabilities in the SNAP language.

Ported forms processing software from C on OS/2 to AIX. Forms processing for the State of Maryland Tax Department included optical character and forms recognition components. Became familiar with the use of debugging tools on the OS/2 and AIX platforms.

Developed C device driver level test software on UNIX platform. Software was used to test IBM RAID storage

software resident in the controller and the RS/6000 host computer. Developed numerous UNIX shell scripts (Korn shell) to automate testing. Conducted corresponding automated X/Motif GUI testing using Mercury Interactive's XRunner framework. Authored test plan for RAID storage device.

Developed UNIX shell script test software for testing of Fibre Channel Standard (FCS) RS/6000 adapter and Host Connection (HCON) X/Motif GUI software. Work involved UNIX system network configuration and administration of RS/6000 and IBM Scalable Power Parallel System (SP1).

Oct 1990 - Nov 1993　　　　**IBM Federal Systems Company**, Houston Texas

Developed C and UNIX shell scripts (Bourne shell, C shell) on UNIX platforms. Software was used for non-intrusive testing of NASA Space Station project flight operating system software.

Developed Ada software on Rational systems and on LynxOS for testing of NASA flight system software. Provided technical leadership in coordinating the plans of a group of test engineers.

Developed Ada software, MVS JCL, and UNIX shell scripts for NASA acceptance testing of prototype test equipment. Prototype systems integrated IBM PCs, IBM RS/6000, IBM 3090 mainframe via host channel attachment, Ethernet, and MILSTD 1553B bus.

Jul 1986 - Oct 1990　　　　**IBM Federal Systems Division**, Manassas, Virginia

Developed Fortran software on DEC VAX 11/750 systems for combat control and acoustics simulation for the United States Navy. Programmed and debugged embedded processors (MC68000) using assembly language. Integrated and tested combat control system on board US Navy Los Angeles attack class submarine.

Developed C code on IBM PC DOS systems for Health Systems network configuration application.

Developed Pascal software on IBM PC DOS systems for analog and digital circuit module testing. Automated test system developed utilized the IEEE488 bus to integrate programmable power supplies and measurement equipment.

Skills:

Languages:	Java (20+ years), C++ (3 years), Groovy (5+ years), Smalltalk (4 years), C (5), SQL (7), Ada (2), Pascal (2), Fortran (3), Python (3), UNIX shell scripts (bash, csh, ksh, etc.) (20), Visual Basic (2), Rexx (2), Basic (3), Javascript (5), Perl (2), Ruby (2), PHP (2), ColdFusion, C# (2)
Platforms:	Mac OSX, Windows, Solaris/SunOS, Linux Debian & RHEL, FreeBSD, AIX, HPUX, OS/2, LynxOS, PCDOS, VAX/VMS, MVS/VM
Database Systems:	MS SQL Server (5), Oracle (10), MySQL (1), PostgreSQL, Sybase (2), DB2 (2), ODBC / JDBC (5), including SQL application programming experience.
Internet:	Javascript, React, JSX, AJAX, HTML, CSS, JQuery, CGI, Apache, IIS, JavaServer Pages (JSP) with JSP Standard Tag Library (JSTL), Flash / Actionscript, ASP, VB Script, Unix scripts, Python, Perl, VisualWave, PHP, Cold Fusion
Development Tools:	Vi, IntelliJ, PyCharm, Rider, CLion, Unity, Eclipse, NetBeans, Borland JBuilder, Maven, Ant, JUnit, Spock, Git, GitHub, ClearCase, Cygwin, CVS, Subversion, WinCVS, RCS, CMVC, Visual SourceSafe, CruiseControl, Hudson/Jenkins, Sonar, Findbugs, Checkstyle, Cobertura, MS Visual Studio, Visual Basic, Visual C++, ERWin, ColdFusion Studio, Flash ActionScript

Education:　　　　**Georgia Tech, Atlanta, Georgia**
Master of Science in Computer Science (3.8 GPA)
Artificial Intelligence, Machine Learning, Robotics: Artificial Intelligence Techniques, Graduate Intro to Operating Systems, Computer Networks, Computational Photography, Game Artificial Intelligence, Software Dev Process, Artificial Intelligence Ethics and Society, Video Game Design

University of Houston at Clear Lake, Houston, Texas
Coursework in pursuit of Master of Science in Computer Science (3.9 GPA) including: Object Oriented Design using C++, Advanced Network Protocols, Advanced Operating Systems, Database Management Systems, XWindows/Motif

Georgia Tech, Atlanta, Georgia
Bachelor of Science in Electrical Engineering

Certifications: Oracle Certified Associate Java SE Programmer (OCA)
Oracle Certified Professional Java SE Programmer (OCPJP)

Other: Attended Rocky Mountain Software Symposiums in 2003, 2006, 2013, UberConf in 2016. GR8Conf US in 2014 and 2018. Local Java user groups meetings (DJUG & BJUG). Hobbies are running, reading science fiction and history, and computer games.