

# RUSSELL H. MORGAN

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## JAVA SOFTWARE ENGINEER

*Software Design ▪ Software Development ▪ Software Testing*

### PROFESSIONAL PROFILE

Software Engineer experienced in end-to-end software application architecture, development, testing, and database administration in the commercial and government industries, including the world's most prominent space technology organization. Proficient in the Software Development Life Cycle (SDLC) for developing Web and Desktop applications employing Agile, Scrum and Waterfall methodologies. Skilled in overcoming technical challenges associated with hierarchical, matrix, and virtual teams, as well as aggressive client demands and service agreements. Awarded with internal and external recognitions for application architecture, database skills, and continuous operations of vital applications for space shuttle flights.

### TECHNICAL SKILLS

Platforms: Client/Server (Windows) and IBM Mainframe

Servers: WebSphere, WebLogic, ColdFusion, JBoss and Tomcat

Databases: Oracle, DB2 and SQLServer

Languages: Java, JEE, C#, HTML, SQL, JavaScript, ActionScript, Adobe Flex, C and COBOL

IDEs: Eclipse, Netbeans, SpringSource, Visual Studio 2010 and JBuilder

Tools: Java Core, Hibernate, Spring MVC, JDBC, BlazeDS, JUnit, Entity Framework, Subversion (SVN), Maven, Microsoft Products including MS Word, Excel and PowerPoint

### PROFESSIONAL EXPERIENCE

**Software Engineer | USAA | San Antonio, TX**  
Contracted by TEKsystems – 5/2017 to 9/2017

5/2017-Present

Applied code fixes to the Credit Card dispute system using Java v7. Created several REST Web Services for an innovation project that allows our testers to test a dispute flow that was not previously testable. Assisted the team in meeting the Visa rollout of their new dispute handling process. Currently recoding the Credit Card Fraud and Non-Fraud interface to support the release of a new user interface, using Java.

**Application Development Specialist | ACCENTURE | Houston, TX**

2/2015-11/2016

Assisted in the development of a major Health care provider's frontend web application. Debugged and fixed numerous reported application defects using Flex and ActionScript. Teamed with other developers to determine fixes to the Java middle-tier. Assisted in the system testing of the complete application.

**Professional Development | SELF-STUDIES | Houston, TX**

12/2013-1/2015

Performed independent professional studies after taking time off for personal travel during the holiday season. Professional development activities included but were not limited to enhancing skills on Java Server Faces (JSF), Java Server Pages (JSP) and Servlets. Work performed included converting Java Swing and Adobe Flex programs into Java Web applications; attended courses on Spring v4, Java EE v7, GIT, HTML5, JQuery, and Swift.

**Software Engineer | TRINITY MILLENNIUM | San Antonio, TX**

1/2011-11/2013

Performed end-to-end object oriented software development and testing on client/server platforms, developing desktop and web applications utilizing Java, JEE, .NET, and C# using MVC architecture. Designed and developed software employing Agile methodology in accordance with the Software Development Life Cycle (SDLC) and industry best practices. Transformed and upgraded client legacy software.

- Extracted business rules, through knowledge mining, and processes for up to 15M lines of code, modernizing legacy code for medium-sized client-based applications.
- Transformed data entry screens from ISA Dialog to Adobe Flex4 and configured middle tier communications using Adobe BlazeDS. Performed Oracle DBA duties to assist in the transformation.

- Analyzed the legacy COBOL, PL/SQL, and Oracle Forms to extract the business rules; strengthened original system documentation, translating functional specifications from the code base into use cases.
- Utilized internally developed, customized grammar-based tools that analyzed and transformed legacy applications from mainframe to object oriented client/server architectures for both governmental and commercial organizations.
- Transformed legacy COBOL applications to a multi-tiered Java web based solution.
- Developed application in Eclipse IDE and Maven Deployed application in JBOSS server; generated and performed JUnit test cases to test batch application program logic flows and transactions running on the web.
- Worked on optimization of batch programs to generate user defined reports, as well as JSF, JavaScript, XHTML, Hibernate, Jasper Reports and Oracle database technologies.
- Transformed legacy PHP and HTML code into an MS MVC platform using C# and .NET 3.5 framework; generated and performed NUnit testing, and implemented business methods using Hibernate.
- Utilized Tortoise Subversion (SVN) and SVN Monitor as part of version control and source code management system.

## **Engineering Staff (Software) | UNITED SPACE ALLIANCE | Houston, TX**

7/1998-1/2011

Led technical teams, provided programming support, and acted as a database administrator for systems used to prepare the space shuttle for future flights. Advanced application productivity/efficiency, training programs, and regular code upgrades via PVCS. Maintained the functionality of Category-A (Loss of Shuttle/Life) NASA applications affecting space shuttle safety and loss of life prevention. Performed unit, integrated, and UAT testing, implementing new programs. Completed peer reviews and software compliance audits of ISO, SDLC, and CMMI.

- Chosen as the primary DB2 DBA for IBM applications written in CSP, DB2, PL/I, REXX, JCL, & TSO CLISTS.
- Assigned as the technical team lead, Architect, for the rehost of a Java application using Oracle 8 to a Java, Adobe Flex, ColdFusion and Oracle 10g application. Designed with the Model-View-Controller (MVC) Pattern. This application was classified by NASA as mission critical; any errors may lead to the loss of the Space Shuttle and/or human life.
- Supported programming and developed multiple utilities using Java classes to aid developers re-hosting an IBM mainframe application to Oracle 9i, Java, Java Swing, Borland's JBuilder IDE, and BEA WebLogic servers.
- Designed, coded, and tested the transition of a mainframe flat file application to a Java, Java Swing, J2EE and Oracle application; automated testing and implemented database tables.
- Provided the application architecture for the design, coding, and implementation of a mainframe DB2 application using CSP, PL/I, JCL, and REXX. The application was converted from IMS, CICS, and FORTRAN. This application consisted of over 100 screens and multiple reports and was delivered three months early.
- Provided Database Administrator duties for all the teams' applications.

## **EDUCATION**

**MS – COMPUTER SCIENCE**, *California State University*, Fullerton, CA

**BS – COMPUTER SCIENCE**, *California State University*, Fullerton, CA

## **AWARDS AND HONORS**

- Recognized with NASA's Silver Snoopy award for quickly learning DB2, becoming the primary DBA, and delivering over 100K lines of new code on time and under budget, implementing a mission critical waivers application for NASA's space shuttle program.
- Earned NASA's Manned Flight Awareness Award for leading a small team in the design and build of a substantially complex mass properties database that calculated the weights and center-of-gravities for each shuttle flight during five moments-in-time.
- Awarded with USA's Quest for Excellence honor for creating an operations and maintenance requirement application from a legacy system that automated engineers' proposals and documented space shuttle changes.