**GEETHA ARADHYULA**

**Summary**

Technically sophisticated Software Engineerwith 10+ years in Information Technology with a specialization in Information Security domain knowledge offering expertise in Object Oriented and Web-based Enterprise applications using Java/J2EE and Client-Server technologies.

* More than 9+ years of software development with Object Oriented Client-Server technologies.
* Expertise in designing and developing Multi-Tier Enterprise Applications using J2EE technologiesincluding Spring, Hibernate, Web Services, XML, JSP, JDBC, SVN, GIT, Ant, Maven, JUnit.
* Hands on experience with UI frameworks, HTML, CSS, JavaScript and brief exposure on JQuery,JSTL and Tag Libraries, Node.js.
* PL/SQL programming and coding in Oracle Stored procedures, Triggers, Types, Functions, Viewsand Packages
* Performed unit testing using JUnit, integration and deployment of applications done using ANT and Maven.
* Solid background in Object-Oriented analysis and design. Very good at various Design Patterns, and UML.
* Identifying errors and interacting with business users & IT team to resolve the issues.
* Maintaining the Metrics Readiness Checklist at the beginning of each release.
* Work closely with DEV group (offshore/onshore) to track and troubleshoot the defects.
* Responsible for preparing of Test Data along with the business team for the UAT and working closely with user community to create UAT test cases and coordinate UAT testing and manage issues/bugs from UAT.
* Developed RESTful web applications using Spring MVC, JAX-B and JSON.
* Expertise in front-end technologies like Java Server Faces, RichFaces,JavaScript, JQuery etc.
* Creating generic progress message and error handling using RichFaces
* Modal component which is used throughout the application.
* Creating data models for pagination.
* Creating generic Regex pattern converter/validator.
* Extending RichFaces datatable filter component, 4.0 context menu etc.
* Improved project profitability by standardizing the service delivery process and instituting the use of Enterprise Architecture, Service Delivery Frameworks (ITIL), and a highly automated and traceable proposal development process based on the IBM/Rational Tool set, CMMI and PMI best practices, and the Shipley proposal development methodology.
* TDD – Test Driven Development – Build Test Cases First, TDD is an iterative software development process where you first write the test with the idea that it must fail.
* Interactions with the business and development teams to understand the requirements, evaluate feasibility, plan and implement Integration and Functional testing.
* Preparation of Test Plan for the projects by using BRS (Business Requirement Specifications) and SD (Solution Design)
* Use case identification and creating Requirements Traceability Matrix to ensure comprehensive test coverage of requirements
* Preparation of Test cases for the functional, regression and system integration.
* Reviewing test plans and test cases.
* Used HP Quality Center as a repository for all of the testing efforts to record and keep track of the defects.
* Eliminate duplication of code and delivering what is absolutely necessary with RUP - TDD
* Working extensively with UNIX servers for deploying the User Interface builds, watch the log files for fixing the errors accordingly.
* Automation of UNIX processes via environment aware shell scripting and cron jobs allowed for little to no user intervention for weekend runtimes.
* Providing a QA Sign off on code deployed in the QA/SIT versions and working as a Lead for all testing activities on given projects.
* Maintenance of all the servers in System Integration Testing (SIT) environment as part of Lead System Specialist duties (i.e., apache server, tomcat server). As per the issues, troubleshoot them and refresh accordingly.
* Coded test cases to test the use cases using JUnit.
* Executed white box testing to ensure coding standards and application requirements.
* On a regular basis deploy builds in TEST environment for UI and Database.

**CORPORATE AWARDS**

* **Bravo Zulu**, FedEx Services - August 2009 - In recognition of work towards the removal of Inter OpCo MEMX firewall, a project that spanned 14 months and many weekends. It resulted in significant resource and cost savings to the corporation in terms rules implementation, requests timelines, avoiding potential project delays and facilitating IT consolidation.
* **Bravo Zulu**, FedEx Services – September 2011, a coveted award given at FedEx for going well above and beyond job responsibilities. This award was given for successfully providing support for Dotcom pre-load efforts.
* **FedEx Team InfoSec award** 2012 – For Contribution towards organizing InfoSec meet at FedEx Services.

**EDUCATION:**

* Master of Science (MS) in Computer Science, The University of Memphis, Memphis, TN - 2007

**CERTIFICATIONS**

* Sun Certified Java Programmer (SCJP)
* ITIL® V3 Foundation
* SPI Dynamics Certified Associate – HP WebInspect

**TRAINING**

* Certified Information Systems Security Professional (CISSP) CBK Review Seminar and boot camp.
* Project Management Professional (PMP) Training boot camp

**TECHNICAL PROFICIENCIES**

**Languages:** Java 1.4/1.5/1.6/1.7, SQL and PL/SQL, HTML, CFML, XHTML, Unix Shell Scripting

**J2EE Technologies:** JSP, Servlets, JDBC, EJB, Angular JS, Java Bean

**Frameworks:** Spring, Spring Batch, Spring Integration, Struts 2.0, Hibernate, SOAP, RESTWeb Services(JAX-RS), Servlet, JSP, Ant, Maven, JUnit, XML, XP, Agile, RUP, Java RichFaces3.3/4.0 Primefaces 1.1

**IDEs/tools:** Rational Software Architect (RSA), Eclipse 3.4/3.5, Spring Tool Suite (STS), IBM Appscan source for development.

**Testing:** Junit, HP Quality Center, Mockito, Spring Test

**Design Modeling:** OOA/OOD, UML, Rational Rose

**Database:** DB2 9.5/9.0, Oracle 10g/9i, MySQL, MS SQL Server 2000/2005/2008, Microsoft Access

**Documentation Tools:** MS Office 2003/2007/2010, Visio, MS Project, MS SharePoint, experience with BRD and System requirements documentation

**Web/Application Servers:** Apache Tomcat 5x, WebSphere 5.1/6.1, WebLogic 6.1/7.0/8.1, JBoss 4.0/4

**PROFESSIONAL EXPERIENCE**

**Society for Worldwide Interbank Financial Telecommunication (SWIFT)**Manassas, VA  **09/2016 – Present**

**Developer/Systems Engineer – Core Messaging Services (CoMS) -** SWIFTNet Link (SNL)

**Roles and Responsibilities:**

Worked in the development team in the SWIFTNet Link (SNL) team that uses application programming interface (API) to access and use SWIFTNet services. The SNL is the mandatory network interface to SWIFTNet. SWIFTNet requires SNL for all external interfaces. The SNL also includes background processes that support messaging, security, and service management functions.

SNL establishes a loosely coupled client/server relationship between business application components. Instead of directly invoking methods or functions, the interaction is message-oriented: structured messages are passed between client and server. A business application designed for SWIFTNet services generally consists of a set of clients and servers.

SNL provides a set of transport-level features designed for high availability and high throughput environments.

* Prepare, plan, co-ordinate, lead and be responsible for the development, testing and installations of medium size/complexity/risk systems and/or projects across functional and geographical lines and review progress regularly with customers and own management.
* Meet with the customer to identify needs and requirements and manage solution development ensuring effectiveness in meeting customer’s needs.
* Analyze input/output requirements, information flow, technical requirements, resources needed and select between alternative systems solutions in order to make a proposal to the customer.
* Validate technical feasibility and estimates of the proposed systems solutions.
* Provide functional support and leadership to staff and customers, lead and direct teams and/or medium size/complexity/risk projects and assist and give guidance in resolving problems.
* Ensure production of complete systems documentation and operating procedures.
* Lead design review meetings

**Environment:** Java, JavaScript, JQuery, J2EE, Visual Studio, RichFaces, AIX, RHEL, PrimeFaces, UNIX, MySQL, and GIT.

**Revenue Solutions, Inc.,** Roseville, CA  **01/2016–08/2016**

**Software Engineer – Enterprise Security**

Revenue Solutions, Inc. provides products and services in tax and labor support enforcement operations. Revenue Premier (RP) Enterprise is premier custom software of RSI.

A member of technical staff reporting to the Chief Security Architect to implement product enhancements and be a technical contributor for security policies, procedures and solutions

**Roles and Responsibilities:**

Steer development and enhancement of security-related software enhancements, projects supporting networked systems, information security, and internal controls. Perform static source-code analysis on RPE, a product of RSI. Assess risks and costs and recommend changes to close gaps. Develop and execute test scripts and cases and assist with security breach investigations Research and stay current with applicable security standards and technologies.

**Environment:** Java, J2EE, JavaScript, JQuery, Visual Studio, XML, Web Services, RichFaces, PrimeFaces, C#, UNIX, MySQL, Eclipse, GIT, IBM AppScan Source for Development.

**Raley’s – Family of Fine Stores,** West Sacramento, CA**09/2013–11/2015**

**Sr. Software Engineer**

A member of the technical staff, responsible for the design, development, maintenance and support of Raleys.com and e-contracts system and web operations for Shop, and Mobile applications

**Roles and Responsibilities:**

* Develop technical architecture of web applications including scripting, database design and user interface design.
* Extensive knowledge of Java on multiple platforms Unix, Linux and Mac OSX. Proficient in multiple packages of the Core Java API.
* UI/UX development experience to create a seamless customer experience for a high traffic e-commerce website through desktop, mobile and smartphone app interfaces.
* Developed Single Page Applications using Angular JS MVC Framework and Restful services.
* Designed and developed RESTful service interface using Spring MVC to the underlying customer event API.
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* Developed and configured the Java beans using Spring and Hibernate framework.
* Implemented Test cases using JUnit and Tested web services with REST Client.
* Developed the Responsive Web Design (RWD) using CSS Bootstrap and Media Queries.
* Implemented account creation module as a Single Page Application using Angular JS along with Angular validation.
* Created Rich Interfaces using PrimeFaces with JavaServer Faces (JSF).
* Worked on Cross Browser Compatible HTML/CSS layouts and created dynamic and reusable libraries using JavaScript, JQuery and Angular JS.
* Design and implementation of web database projects.
* Review and evaluate Internet Web-based proposals.
* Implemented Core J2EE Design Patterns like Session Façade to reduce complexity to client, Singleton for caching and performance improvement and DAO to access persistence layer.
* Communicate with other personnel regarding technical requirements of web apps and/or upcoming projects or events related to the web apps.
* Integrated User interface, server layer, persistence layer using Spring IOC, AOP and Spring MVC integration with Hibernate.
* Efficiently organized code reviews and defect analysis with senior architects and business analysts.
* Performed unit testing using JUnit and performance and volume testing using HP tools.
* Used SVN to keep track of all the implementations and modifications done in the project, allowing several developers to collaborate.
* Working as tech lead managing four members team, guiding them, conducting code reviews. .
* Delivered more than 8 production releases within a year following Agile Scrum method
* Conducted key Agile Ceremonies including Scrum, Retrospectives and trained team members on Agile practices including Story Point Estimation, Task breakdown
* Refresh website content to ensure accuracy and timeliness of information and images.
* Develop modifications or enhancements to existing web programs.
* Troubleshoot problems associated with web applications.
* Evaluate operations, and recommends improvements and modifications.
* Develop strategies and/or plans for web app design.
* Research and evaluate software, hardware and new technologies.
* Security and management of access to information transmitted and stored.
* Prepare and conduct presentations.
* Provide training to personnel in the maintenance of web apps.
* Front-end architecture and Web application development for backend systems using Angular JS and Node.js for backend system.
* Create and/or manipulate graphics.
* Create interactive forms.
* Designed a batch processing system with REST based APIs (JAX-RS), using Spring Batch 2.0, integrated with scheduling.
* Handled Java multi threading part in back-end component, one thread will be running for each user, which serves that user.

**Environment:**Java, J2EE, spring, Struts 2.0, HTML5.0, XML, Web Services, Java Script, Angular JS, UNIX, MySQL, Eclipse,Spring STS, SVN.

**PNC Financial Services,** Strongsville, OH  **01/2013–08/2013**

**Senior Java Developer**

Developed, enhanced, and supported Single sign-on consolidation framework applications for Shared Security Services. Analyzed requirements and coded specifications, created and documented high-level designs, and performed code reviews. Tested changes and repaired defects. Promoted new code to production and provided production support.

**Roles and Responsibilities:**

* Main responsibilities include design and development of prototypes for the LDAP authentication
* General development to enhance the functionality for SSO test and development environment and CA Siteminder cookie generation.
* Involved in the analysis, design, and development and testing phases of Software Development Lifecycle (SDLC)
* Designed Use Case Diagrams, Class Diagrams and Sequence Diagrams and Object Diagrams, using UML to model the detail design of the application.
* Developed the application front end: developed action classes, form beans and Java Server Pages.
* Test case generation, preparing test strategies and test plans.
* Advise customer about, or perform, maintenance of software system.
* Coordinate installation of software system. Monitor functioning of equipment to ensure system operates in conformance with specifications.
* Analyze information to determine, recommend and plan installation of a new system or modification of an existing system.
* Develop and direct software system testing and validation procedures.
* Consult with customers or other departments on project status, proposals and technical issues such as software system design and maintenance
* System support.

**Environment:** Java, JavaScript, JQuery, J2EE, Spring MVC, WebServices, Java Script, CA Siteminder, UNIX, SQL, HTML, Eclipse SVN, MS Visio, UML.

**FedEx Services, Information Security,** Collierville, TN**09/2009–01/2013**

**Senior Java Developer/Lead**

Developed, enhanced, and supported enterprise Delegation Framework applications and APIs, and Oracle-based Web Single Sign-on (WSSO) application for Data security, Information Security. Analyzed requirements and specifications, created and documented high-level designs, and performed code reviews. Tested changes and repaired defects. Promoted new code to production and provided 24/7 production support. Ensured full compliance with SOX compliance requirements

**Roles and Responsibilities:**

* Develop streamlined code resulting in fewer server bounces and reduced maintenance costs.
* Implement OblixCoreID WSSO solution across all enterprise intranet applications providing single point login capabilities.
* Deploy LDAP directory-based authentication system and LDAP Groups retrieval system providing improved administration and access management capabilities.
* Simplify delegation assignment and approval by including compliance teams in broader range of work assignments.
* Establish strengths in FedEx project management and implementation methods via hands-on planning, testing, and implementation support experience as Intern during summer 2006.
* Involved in the analysis, design, and development and testing phases of Software Development Lifecycle (SDLC)
* Design Use Case Diagrams, Class Diagrams and Sequence Diagrams and Object Diagrams, using UML to model the detail design of the application.
* Develop the application front end: developed action classes, form beans and Java Server Pages.
* Perform the duties as a Release Lead by managing the entire release consisting of multiple projects.
* Perform duties as a Build Rep by reviewing and creating code patches for peers before pushing any code to production.
* Programmatically applied HTTP (headers, cookies) constructs to accomplish site navigation. Applied model-view-controller design pattern using Java Beans, Swing and conducted simultaneous queries and retrievals using Java multithreading techniques.
* Training peers on the application usage and support it during its entire life span in a project.

**Environment:** Java, J2EE, JDBC, OblixCoreID, UNIX, WebLogic 6.1, Oracle 9i, SQL, MS Office (Word, Excel, Power Point) MS Project, CVS.

**KEY PROJECTS**

**Enterprise Delegation**

**Roles and Responsibilities:**

* Develop and supported Delegation Framework for Information security.
* The framework provides registered and approved applications an application-programming interface (API) to request delegation information. This service is implemented as web service.
* Analyze business requirements, external interfaces and documented the design using high-level, class and sequence diagrams.
* Participated and conducted code review meetings prior to pushing patches to next levels/environments.
* Fix Defects in testing phase, supported corporate loads and provided production support 24/7.
* Followed SOX Procedures and guidelines.

**Results:**

* Less memory leaks (less server bounces) and reduced maintenance costs. Delegation assignment/approvals are now simpler because of non-involvement of Compliance teams in approvals for some specific assignments.

**Environment:**Oracle 9i, Java, MS Visio, J2EE, Servlets, JDBC, Java Script, WebLogic 6.1, XML, SOAP, SQL, HTML, CVS, Rational Rose, UML.

**Quarterly Review Tool (QRT)**

Played a pivotal role in the application rewrite for the QRT tool from Perl to Java Developed and supported the web-based interface that allows the management to review the employee access to various production systems every quarter. QRT tool compiles and displays access information supplied by owners of systems.

**Roles and Responsibilities:**

* Collaborate with the Project requirements manager on the BRS rewrite to include enhancements. Self-management tools to the application owners, necessitate de-provision through attestation, improve audit capabilities.
* Author functional specifications and communicated them to development and testing teams.
* Facilitate review meetings to ensure that the project was implemented within the specifications.
* Supported the use and enhancements of the SOX Quarterly Review Tool.
* Administer Quarterly Review process as scheduled each quarter.
* Develop a training session for application owners in the use of the QRT.

**Key Achievements:**

* Consistently maintained stringent coding and documentation standards, and assisted with quality control efforts.
* Improved code scalability to handle massive amounts of data with shorter runtimes.
* Earned merit awards for exemplary performance beyond normal responsibilities, excellent teamwork, and delivery of outstanding product.

**Environment:**Java, JDBC, HTML, UNIX, Java Script, XML, MS Office suite, SQL Server 2000, Oracle, Rational Rose, UML.

**FedEx Services, Information Security,** Collierville, TN **09/2008– 08/2009**

**Analyst**

Recommended preventive, mitigating, and compensating controls to ensure the appropriate level of protection and adherence to the goals of the overall information security strategyAssisted in the development of access-controls, separation of duties, and roles

**Roles and Responsibilities:**

* Conduct technical risk evaluation of hardware, software, and installed systems and networks. Assisted with testing of installed systems to ensure protection strategies are properly implemented and working as intended.
* Review proposed new systems, networks, and software designs for potential security risks.
* Review applications and recommend mitigations for identified vulnerabilities throughout the Systems Development Lifecycle.
* Assist in incident response and recommend corrective actions. Communicated with personnel about potential threats to the work environment.
* Support existing security policies and procedures, as well as creation and implementation of new security procedures.
* Presented options to management for the enhancement of DNS, firewall, and modernization of firewalls.
* Assisted with the upkeep of network infrastructure including switches and load balancers. Assisted in migration of VPN concentrators to new solution.
* Provide weekly metric of productivity.
* Analysis and identification of potential non-compliance issues against internal and regulatory requirements.
* Alignment of processes across regions and globally, where possible.
* Educate external groups to ensure awareness of InfoSec principles and policies.

**FedEx Services, Information Security, Collierville, TN 09/2006–08/2008**

**Systems/Applications Analyst**

Steer development and enhancement of projects supporting networked systems, information security, internal controls, and logistics management applications. Create and manage project schedules ensuring on time, on budget deliverables completion adhering to qualitative requirements. Assess risks and costs and recommend changes to close gaps. Develop and execute test scripts and cases. Facilitate communications through the full project lifecycle including testing, issues resolution, and implementation planning.

**Roles and Responsibilities:**

* Serve as Compliance Champion for enterprise SOX compliance efforts. Evaluated internal controls, identified gaps, and recommended procedural changes and created associated procedural documentation.
* Work with cross-functional stakeholders to assess needs, create business rules and requirements, and specifications documentation.
* Review SOX Access Review Manager (ARM) tool used to verify compliance. Led tool rewrite efforts that relocated database to local environment, provided self-administration tools, and improved audit capabilities. Saved $150,000 by automating audit processes while improving access removal rates by 350%.
* Assess systems security needs and created standardized information security procedures.
* Improve performance of single-source login capabilities across multiple platforms that streamlined account synchronization, automated account removals, and password change processes.
* Train and mentor new hires in best-in-class Global Development Process (GDP).

**Achievements:**

* Earned merit awards and recognition for exemplary performance beyond normal responsibilities, excellent teamwork, and delivery of outstanding product.
* Earned prestigious Bravo Zulu award for exceptional service (In recognition of removing firewall barriers between FedEx operating companies, resulting in significant cost savings).

**KEY PROJECTS**

**Access Review Manager (ARM)**

**Roles and Responsibilities:**

* As a part of audit procedures, facilitated meetings with auditors (E&Y) to review ARM automated process that determines if the system and process is operating as designed.
* Interviewed meetings with business users to gather requirements and analyzed the feasibility of their needs.
* Worked on a BRS rewrite to include enhancements such as moving application/database to the local environment (to improve developer resource utilization), provide registration process and self-management tools to the application owners, necessitate de-provision through attestation, improve audit capabilities.
* Authored functional specifications and communicated them to development and testing teams.
* Facilitated review meetings to ensure that the project was implemented within the specifications.
* Draft Standard operating procedure (SOP) for ARM.
* Effectively supported the use and enhancements of the SOX Access Review Manager.
* Administered Quarterly Review process as scheduled each quarter.
* Assisted new application owners in the use of the ARM.

**Results:**

* The Internal Control Function credits ARM for improvements in audit, noting the 350% increase in the average number of access removals.
* In addition to improvements, 3000 man-hours were saved ($150,000) in FY'08 due to automating the review.
* 84% of SOX In-Scope applications are now benefiting from the process.
* ARM provides management the necessary toolset for reviewing user-access.

**Environment:** Java, JDBC, HP QC, CaliberRM, iRise, MS SharePoint, CA IDM, PL/SQL, UNIX, Rational Rose, Software Engineering (SDLC), and UML.

**Freight AD/Identity Management (IdM) Integration**

FedEx Freight was using PassGo to synchronize passwords across multiple platforms, such as AD, RACF, AS400 and few other Unix/Linux systems. This project tied in AD with IdM that resulted in the retirement of PassGo and achieved substantial cost savings for FedEx.

**Roles and Responsibilities:**

* Interview business users to gather requirements and analyzed the feasibility of their needs by coordinating with the project manager and the tech lead.
* Prepare business requirements specification, conducted and participated in JAD sessions with stakeholders and system users to collect the software requirement specifications (SRS).
* Use RUP methodology to analyze and translate business requirements into system specifications.
* Use Rational Rose and UML to produce models like context, use case, sequence and activity etc.
* Created and managed project schedule ensuring on time, on budget deliverables completion adhering to qualitative requirements.
* Develop and assisted in designing test plans, test scenarios and test cases for integration, regression and user acceptance testing (UAT) to improve the overall quality of the Application.
* Facilitate communications through the full project lifecycle including testing, issues resolution, and implementation planning.

**Results:**

* Synchronization of passwords - The Windows (AD/NT) logon password (Active Directory) will be the same as our Enterprise (LDAP) password. Results in less frequent password expiration. Password expires, every 80 days rather than 45.
* New Accounts synchronization.
* Systematic approach for the accounts removal and streamlined new accounts synchronization process.
* Sync processes for Automated Account removal, Password changes, and Password expiration results.
* The Internal Control Function credits ARM for improvements in audit, noting the 350% increase in the average number of access removals.
* In addition to improvements, 3000 man-hours were saved ($150,000) in FY'08 due to automation of the review.

**Environment:** HP QC, CaliberRM, iRise, MS SharePoint, CA IDM, PL/SQL, Rational Rose, Software Engineering (SDLC), and UML.