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**Sr. Full Stack Software Consultant Email: rakesh.chouhan1@gmail.com**

EXPERIENCE SUMMARY

* **Over** **8+** years of progressive professional experience in design, development, testing and implementation of various High transactional and distributed applications using **Javascript, HTML, CSS, JAVA, J2EE Stack and Adobe Flex** Suite.
* **8+ years** of experience in designing and developing multi-tier enterprise solutions using **J2EE technologies** such as JDBC, EJB 2.0/3.0, Java Script, JNDI, LDAP**, Web Services, Java RMI, JMS,**  Swing, JSF, PHP, JSF, **JSP**, **CSS,** JTA.
* **7+ years** of Experience with Adobe FLEX/FLASH Builder-2.0/3.0/4.0; Adobe Flash Player and Action Script also have Experience with Adobe Captivate 3, Adobe Illustrator CS3 and Adobe Photoshop CS3.
* **6+ years** of specialization in Adobe Flex Integration with Middleware technologies like Spring, Hibernate, ColdFusion, PHP, Data Services and Remote Objects (Using LCDS and Blaze DS).
* **6+ years** of experience in implementation of build and logging tools like **Maven**, **Ant**, **Grunt**, **Axis**, **Log** **4J**, **slf4j**.
* **5+ years** of Experience in Design development and implementation of **Web Services** using **SOAP, WSDL, XSLT,** IBM Web services Toolkit and **Axis.**
* **Over 4+ years** of experience in designing and developing applications using **Javascript**, **jQuery**, **HTML5**, **CSS3** and various **Javascript** **Templating** systems like **freemarker**, **velocity**, **Mustache**, **Handlebars** ad **Dust**.
* In-depth understanding and experience working with **algorithms**, **design** **patterns**, **modularization** and **componentization** approaches with keeping in mind the **performances** of **Data** **Structures** by computing them with **Big-O and Big Omega notations**.
* Experienced in developing J2EE components on **Servers** like IBM Web Sphere, BEA’s Web Logic, Glass Fish, J-boss, and Apache Tomcat.
* Hands on experience using XML, XML schemas, XSLT, JAX-RPC, JAXB, DOM, SAX, UDDI, AJAX, DOJO, Maven.
* Proficient in working with various IDEs like Eclipse, Net Beans, Bea Web logic Workshop Studio, IBM Web Sphere (WASD), IBM RAD and J-Developer.
* Extensive work done on CVS, SVN, VSS, ClearCase, Rational Rose and UML.
* Good Knowledge and work experience on various Design Patterns.
* Good experience in developing SQL and extensively worked with Oracle 10g, DB2 and Sybase.
* Strong Database development experience in writing functions, stored procedures, triggers, and views in PL/SQL.
* Experience in Software Development on UNIX, Red Hat Linux, Ubuntu, Sun Solaris**.**
* Ateam playerandself-motivator possessing excellent analytical, communication, problem solving, decision-making and Organizational skills.

TECHNICAL BACKGROUND

* **J2EE Technologies**: JAVA 1.2-1.5, J2SE 5.0, J2EE, JSF 1.2/2.0(Mojarra), JSP, JPF, Servlet, EJB 2.X/3.X, MDB, JNDI, JavaScript, ANT, JDBC, JAVA Mail, Java NIO, JMS, MQ Series, Multi-threading.
* **XML Technologies**: XML, DOM Parser, SAX Parser, JAXB, JAXP, DTD, XML Schema, XSL, HTML, XHTML, MXML, XSLT, CSS, X-query, XML-Beans, JDOM.
* **ADOBE Technologies:** Adobe FLEX 2.0/3.0, MXML, Action Script 3.0, Flex Charting, Skinning, Adobe AIR, Flex Builder 3.0, Adobe Illustrator CS3, Live Cycle Data Services ES 2.6.1, Cairngorm Micro Architecture.
* **Template Engines**: Velocity, FREEMARKER, Mustache, Dust and HandlebarJs
* **Scripting Languages**: Java script, Unix Shell Script, Linux Shell Scripting.
* **JAVA Based Framework**: JSF, Struts, Apache Axis Framework, Spring, Ant, Maven 2.0, Log4j, J-Unit, Hibernate 2.x/3.x
* **SOA Tools**: BEA Aqua-logic, Oracle’s BPEL Process Manger, Oracle Service Bus, Apache Service Mix
* **Distributed System**: JMS, MQ- Series, Web Sphere Message Broker, Web Services, SOA, SOAP, WSDL,UDDI
* **RDBMS**: Oracle (SQL and PLSQL), SQL Server.
* **Web/App Servers**: Apache Tomcat 3.x-5.x, IIS(Internet Information Server) 1.x-7.x, BEA Web logic 6.x-10.x, IBM’s Web Sphere App. Server(WAS) 1.x-7.x, J-boss 4.x-6.x,Open EJB.
* **IDE tool**: Eclipse 3.x, My-Eclipse, IBM’s WSAD(Web Sphere Studio Application Developer), Net Beans, J-Builder, IBM’s Rational Application Developer (IRAD) 6.x-7.x,Oracle’s J-Developer 9i,10.x,11g, BEA Work Space Studio 1.1, J-Creator LE and Intellij IDEA.
* **Design and Analysis**: UML 2.x
* **Designing Tool:** Rational Rose Enterprise Ed 2003, Visio 2000, Rational Systems Developer
* **Version Management**: VSS, CVS, Clear Case, SVN, PVCS, TFS (Team Foundation Server)
* **Bug Tracking Tools**: Rational Clear-quest, HP Quality Centre, JIRA, Team Foundation Server.

**EDUCATION**

* **B.S in** **Electronics** & **Computer Science, J.N.T.U, Hyderabad, A.P, India. 2003 - 2007**
* **M.S in Electronics &Computer Science, Wayne State University, Detroit MI. 2008 - 2009**

**EMPLOYER: N2 SERVICES INC. PROFESSIONAL EXPERIENCE**

**Client: Goldman Sachs. – Jersey City, NJ Jan 2015 – Till Date**

**Role: Sr. Full-Stack Software Engineer Project: Expense Management Application**

The Expense Management Application supports Goldman customers to raise Invoices for their monthly businesses. It allows the customers to Self Service themselves with followings tasks like, assigning Invoices to Anlysts, Coders, Reviewers, Administrators, etc., This Application user interface has been built using Adobe Flex and the middleware with Java Technology. Current engagement is with migrating user interface with HTML5, AngularJs framework, with business rules and logic in the middleware.

**Responsibilities:**

* Working on migrating the Flex based UI with HTML5, JS, AngularJs MVVM framework.
* Incorporating HTML5/JS’s Slick Grid for data grid’s in the UI.
* Using Slick Grid’s pagination mechanism.
* UI Router to route and save states between pages.
* Optimizing and improving existing SQL queries to improve Execution Time and Data Fetch time.
* Improving existing Flex UI Screens to render quickly.
* **<<**MORE TO COME**>>**

**Environment:**Adobe Flex SDK 3.0, Flash Builder 4.5, Eclipse, Brackets, Sublime Text, GruntJS, HTML5, CSS3, jQuery, Java Script, AngularJS, Flash Debugger Version 18, JBoss 5.x, MXML, Action Script 3.0, Conductor Deploy, Tomcat 6.x, Apache Ant Build tool 1.8.0, Maven 3, Git, SVN.

**Client: VMware Inc. – Palo Alto, CA Mar 2014 – Mar 2015**

**Role: Sr. Full-Stack Software Engineer Project: vSphere Web Client/VCSA Installer**

The vSphere Web Client enables you to connect to a vCenter Server system to manage an ESXi host through a browser. This application was initially developed using Adobe Flex Technology which now encompasses HTML5, CSS3, jQuery in the Flex Client using iFrames in the current 6.0 version.

The VCSA Installer (aka. vCenter Server Appliance) deployer is used to run the vCenter Server, where the user’s can easily install and configure vCenter without the need of having a dedicated server. This product was first developed in Windows Client, which was again packaged as a Linux based VM. Currently this product goes as a standalone application which provides the same functionality as the Windows Client. This product has been developed using HTML5, CSS3, AngularJs and jQuery.

**Responsibilities:**

* Participated in guest lectures and training sessions for **VCSA** Installer, which was architected using **AngularJs** **MVVM** framework.
* Responsible for fixing defects on both the client side (Adobe Flex) and Server side (Java/J2EE).
* Worked on front end **form field validations** in VCSA Installer which is purely using AngularJs.
* Used **AJAX** & **JSON** communication for accessing **RESTful** web services data payload.
* Played with Web Socket Connections to communicate with VM and bring the same in action on all major browsers.
* Communicated with CPP plugins for data retrieval and data post within **Web Sockets**.
* Create Browser detection utility using Regular Expressions for different browser **User** **Agents** strings.
* Used Advanced JavaScript **ArrayBuffer Data Types** to read and write binary data to Web Sockets.
* Worked on Java Server Side Communication for Web Sockets to read and transfer data from ESX host machine to the client on Browser.
* Resolved **Cross Site Scripting** (**XSS**) vulnerabilities within majorly used browsers by using **OWASP Java HTML Sanitizer** Google code project library.
* Extensively used **jQuery** for faster **javascript** programming and followed better coding techniques for better performance and intuitiveness.
* Kept in mind while coding about the **performances** of search techniques with **Big-O notations**.
* Worked extensively on **HTML5** div and canvas elements to demonstrate fullScreen prototypes.
* Reduced the necessity of using JavaScript styling by using **CSS3** wherever necessary.
* Used **GruntJS** library to minify, unit test and compilation of java scripts.
* Wrote various javascript utilities like **XMLParser**, **DomainNameValidator**, **IpUtil** etc.. with recommended **RFC** **standards** for easy **code** **reuse** for form validations.
* Worked on setting the **Reverse proxy for Web Sockets wss protocol** to support HTML based Web Console for a Virtual Machine.
* Well versed with the use of **Perforce** **VCS** with different branches on different P4 Servers and as well as **Cross porting** and **Back porting** files and folders.
* Used **Review** **Board** for code reviewing and extensively used **Maven** and **Ant** for adding dependencies, installing, packaging and deployment.

**Environment:**Adobe Flex SDK 3.5/4.1/4.5, Flash Builder 4.5, Eclipse, WebSorm 8, Sublime Text, GruntJS, ExtJS, HTML5, CSS3, jQuery, Java Script, AngularJS, Flash Debugger Version 11, Fringe Framework with Spring Extensions, MXML, Action Script 3.0, BuildWeb, Tomcat Virgo Server, Apache Ant Build tool 1.8.0, Maven, log4j, Perforce.

**Client: Deloitte – Camp Hill, PA Jul 2011 –** **Feb 2014**

**Role: Sr. UI Consultant Project: Multiple State Projects**

**State of Delaware – ASSIST May 2012 – Feb 2014**

**State of Pennsylvania – COMPASS Jul 2011 – Apr 2012**

**Role: Sr. HTML5/CSS/JQuery Developer**

ASSIST/COMPASS is an online application for Delawarians/Pennsylvanians to apply for many health and human service programs. The fast and easy way to apply for various benefits - anytime and anywhere. Benefits Include, Health Care Coverage, Supplemental Nutrition Assistance Program (SNAP), Cash Assistance, Long Term Care, Free or reduced school meals, etc..

**Responsibilities:**

* Responsible for leading a team of **UI** developers.
* Responsible for design, configuration, development, validating & testing of ASSIST/COMPASS Application.
* Application Architected and developed using **AngularJS**, **MVVM framework.**
* Designed various modules using technologies like **ext**.**Js** ,**Json**, **JavaScript**.
* Worked on JavaScript and Browser Cache mechanism for storing and retrieving data for the website.
* Created client side validation tool using technologies such as **extJS** and **JavaScript**.
* Extensively worked with **JQuery** for Effects.
* Used **AJAX** & **JSON** communication for accessing **RESTful** web services data payload.
* Created Responsive Designs (Mobile/Tablet/Desktop) using **HTML5** & **CSS3**.
* Implemented user interface guidelines and standards throughout the development and maintenance of the website using **DHTML**, **HTML**, **CSS3**, **JavaScript** and **extJs**.
* Used **Bugzilla** as the bug tracking system to track and maintain the history of bugs/issues on everyday basis.
* Implemented paging functionality for various screens for quicker rendering of data and also to avoid crashing of browser.
* Developed cross-browser/platform **HTML5**, **CSS**, and **JavaScript** to match design specs for complex page layouts while adhering to code standards
* Implemented user interface guidelines and standards throughout the development and maintenance of the website using **DHTML**, **HTML**, **CSS3**, **JavaScript** and **JQuery**.
* Implemented various Validation Controls for form validation and implemented custom validation controls with JavaScript validation controls.
* Integrated with the back-end code (**JSP**) using **JQUERY**, **JSON** and **AJAX** to get and post the data to backend servers.
* Simultaneously was responsible for maintaining Flex Based Application modules.

**Environment:**Adobe Flex SDK 3.5/4.1/4.5, Flash Builder 4.5, Eclipse, Sublime Text, JSLint, JSHint, Koding, Firebug, HTML5,CSS3, jQuery, Java Script, AngularJS, Flash Debugger Version 10/11,Cairngorm Framework 2.2 with Spring Extensions, Blaze Monster, MXML, Action Script 3.0 ,Team City, IIS Server, Oracle 10i/11g, Apache Ant Build tool 1.8.0, Maven, log4j, SVN.

**State of Louisiana - Department of Children and Family Services Jul 2011 – March 2012**

**Role: Sr. Flex-Java/J2EE Consultant**

CAFE (Common Access Front End) is developed for the Department of Children and Family Services (DCFS) for State of Lousiana. The Rich Internet based CAFE application, serves the residents of lousiana to opt welfare programs for Child Care and Family while selecting various Benefits.CAFE application is purely a browser based application.

**Responsibilities:**

* Responsible for design, configuration, development, validating & testing of Cafe Application.
* **Lead Developer** on **Parsley Framework (2.4)** for a proper decoupled application.
* Extensively working on implementing **Parsley Framework** for injecting Session, Models, Views and Services.
* Developed highly efficient **Custom Module Loader** in order to load & unload any number of modules.
* Used **Blaze Monster** for **VO Generation** and test **written services**.
* Working heavily o**n Flex Skinning, Flex Custom Data Grids** and **Custom Logging.**
* Develope**d Custom MXML** Components like PopUpMenu,CurrencyTextInput, an**d Custom Action Script** Components for abstraction of huge forms.
* Working on **Performance** and **Memory Issues** with builtin **Flash Builder’s Profiling** to check Loitering Objects,Memory Leaks, etc.
* Checking-in, Checking-out and all the Code Changes are being Submitted using **SVN and Clear Case.**
* Used **Charles** tool to check the network services request and response back and forth from Flex and Java and **Blaze Monster** tool to generate VO’s.
* Responsible for accessing the data from Web Sphere **Spring-Hibernate** MVC Architecture.

**Environment**:Adobe Flex SDK 4.1/4.5, Flash Builder 4.5,Rational Application Developer(RAD 8.0.3), Flash Debugger Version 10/11,Parsley Framework 2.3/2.4,Blaze Monster, MXML, Action Script 3.0 ,Spring, Hibernate, Web Sphere Application Server (WAS), IBM-DB2, Apache Ant Build tool 1.8.0, Maven, log4j, SVN, Clear Case, JDK1.5.

**Client: Morgan Stanley – NYC, NY May 2012 – May 2013**

**Role: Sr. Flex/J2EE Consultant Project: FAM, CB & TFR**

Capital Budgetting (CB/Wallet) and Technology Funding Requests (TFR’s) are flex based internal dashboards of Morgan Stanley to maintain Funding Management of various clients across the world. These dashboards are also intended to serve the workflow status of each request made. FAM (Funding Alert Management) dashboard was intended to serve the Business Owner’s, the Super Departments to view and or take an appropriate action (CRUD operations) on a Wallet or a TFR.

**Responsibilities:**

* Extensively working on **Nested Lists Item renderer’s** and **Nested Data grid columns**.
* Working in on converting **XML** data to **VO’s** and vice versa, in a much simplified **parsley/spice** **factory** **reflection libraries**.
* Creating **Resource locale** batch to separate resource bundles from the application to reduce the swf size.
* Working on **Data Visualization’s** such as **Custom Charts**, **Custom Lists**, **Custom Data grids** and **Custom Item Renderer’s** to meet the requirements.
* Working on **Non Data Visualization** components such as **Custom Formatter’s, Custom Validators** and **Custom View Stacks**.
* Smart way of listening variable changes instead of Binding Utility’s.
* Working with **Perforce Version Control System** repository for Synchronizing, checking in, checking out the code base.
* Working on bug fixes on legacy flex 3 dashboards.
* Working on a brand new **FAM (Funding Alert Management)** dashboard using **Flex 4.5.1 SDK.**
* Using **Spark Component Architecture** for Skinning Flex Applications.
* Written **Abstract Service** classes for accessing data through **HTTP services**.
* Performing **CRUD** operations on the dashboards end to end.
* Used Remote Debugging, Local Debugging, Eclipse/ Flash Builder Network Monitor, Firebug and Fiddler tunneling tools to monitor the request and response body/headers.
* Working heavily o**n Flex Skinning, Flex Custom Data Grids** and **Custom Logging.**
* Working on **Performance** and **Memory Issues** with builtin **Flash Builder’s Profiling** to check Loitering Objects,Memory Leaks, etc.

**Environment:**Adobe Flex SDK 3.x/4.x, Flash Builder 3.x/4.x, Eclipse/Flash Builder IDE 3.x/4.x, Flash Debugger Version 10/11, Cairngorm 2.x, Firebug, Fiddler, MXML, Action Script 3.0 ,Spring, iBatis, Tomcat 5.x, Oracle 11, Apache Ant Build tool 1.8.0, Perforce, JDK1.6.

**Client: Chrysler – Auburn Hills, MI Apr 2010 – Jun 2011**

**Role: Flex/J2EE Consultant Project: wiTech NGST**

wiTech Vehicle Diagnostic Application serves as the core and the integral software to inspect all the Chrysler Vehicles and is currently being used by all the Chrysler Dealers across the world. This wiTech Application is Desktop based AIR Application which is purely built using Flex Cairngorm Micro Architecture as the Front End, which connects its own built-in Server (called as wiTech Server) written in J2EE Platform. The Entire backend data is being contacted using secured Socket Connections.

**Responsibilities:**

* Every day morning starts up with a daily Stand up meeting following an Agile Methodology.
* Responsible for design, configuration, development, analysis, debugging & testing of wiTech Application.
* Extensively getting involved in guiding and mentoring Java/J2ee based consultants about Adobe Flex.
* Following **Cairngorm Micro Architecture 2.2** MVC Framework to build the wiTech Diagnostic Application initially and currently the application is based on **Parsley Framework.**
* Extensively working on **Strings, XML’s, Byte Array’s, Socket Programming and Secured Socket Connections**.
* Backend Data is being retrieved using **Multiplexed Secured Socket Connections.**
* Working heavily o**n Flex Skinning, Flex Custom Data Grids** and **Custom Logging.**
* Custom Logging is being done by **Secured Custom AES Encryption Mechanism.**
* Adopting different **Design Patterns** and also Develope**d Custom MXML** Components an**d Custom Action Script** Components.
* Working with **Session Management** using **Cookies**.
* Working on **Performance** and **Memory Issues** with builtin **Flash Builder’s Profiling** to check Loitering Objects,Memory Leaks, etc.. within the wiTech Application.
* Working on **Flex, ActionScript 3.0** for building **Destop Based AIR wiTech Application** with **Item Renderers, Menus,Tab Navigators, Form Controls** and **also Flex Styling.**
* Checking-in, Checking-out and all the Code Changes are being Submitted using **Perforce P4V**.
* Responsible for accessing the data from Socket Servers using server side **Spring-Hibernate** MVC Architecture.
* Worked on **Install Shield Premier** to build the .exe installer version of the application.
* Responsible for **leading the flex development team** and quality assurance of all web and desktop development projects, including web usability, accessibility, testing and debugging.

**Environment:**Adobe Flex SDK 3.5/4.0/4.1, Flash Builder 4.0,Idea Intellij 9.0.2, Adobe AIR Installer Version 1.5.2.93/ 2.0, Flash Debugger Version 9/10,Cairngorm Micro architecture 2.2, MXML, Action Script 3.0, Ajax Frameworks(Google API’s, YUI), Flex Charting, XML Socket Connections, Spring, Hibernate, Custom J2EE wiTech Server, My-SQL 5.1, UNIX, Apache Ant Build tool 1.8.0, log4j, Perforce P4V, JDK1.5, Putty, Win-SCP, Install Shield Premier.

**Client: Verizon Telecom -Irving, TX Dec 2008 – Apr 2010**

**Role: Flex/J2EE Consultant Project: Template Manager**

Template Manager for sending mails is used for internal Business employees of Verizon Telecom which is totally based on Flex as the UI and J2EE as the server side. This project is mainly intended to make the Business more user friendly. Template Manager is used to send promotional, billing dues and offers as emails to the corresponding preferred customers of Verizon. Template Manger also sends mails to a group using the Open EMM (Open Source Email Marketing Management) server which internally uses a web service.

**Responsibilities:**

* Responsible for overall design, configuration, development, deployment, analysis & testing of overall **Flex based UI Project** (called Template Manager) development and integration with backend **J2EE** and web services layer to pull out the data to Flex UI components.
* Extensively Involved in guiding and mentoring java based consultants about Adobe Flex.
* Developed **Dash board applications** for maintaining the records using Data Visualization components and **Adobe LCDS**.
* Involved in generating **PDF** documents for the pulled up records and displaying the records using **Paging Mechanism**.
* Extensively used **Cairngorm Micro Architecture 2.2** MVC Framework to build the Template Manger project.
* Worked heavily on **Flex Skinning**, **Flex Data Grids and Advanced Data Grids** and **Flex Data Services** Components.
* Implemented varoius **Design** **Patterns** and also Developed **Custom MXML** Components and **Custom Action Script** Components.
* Worked with various **Flex Data Visualization** Components like Charts, Data Grids and Advanced Data Grids.
* Worked on **Flex, ActionScript** for building **Rich Internet Applications(RIA’s)** with **Item Renderers, Menus,Tab Navigators, Form Controls** and **also Flex Styling**
* Extensively workedwith **JSP, Servlets** while using **LCDS and Remote Object**.
* Responsible for accessing the data from databases using server side **Spring-Hibernate** MVC Architecture.
* Deeply Involved in **migrating records** from Production (**Oracle 10i**) to Development Databases (**My-SQL**) using **ETL Scripting Language.**
* Highly Involved in **writing and converting Queries** from both Oracle to My-SQL and vice versa.
* Involved in complete development of ‘**SCRUM Development**’ and also implemented **Flex performance tuning techniques**.
* Responsible for **leading the flex development team** and quality assurance of all web development projects, including web usability, accessibility, testing and debugging.

**Environment:**Adobe Flex 3, Flex Builder 3.3,Eclipse Galileo 3.5, Cairngorm Micro architecture 2.2, MXML, Action Script 3.0, Ajax Frameworks(Google API’s, YUI, I-Log Elixir), Flex Charting, Adobe LCDS ES 3.0 and BlazeDS, ETL Scriptella, Adobe Illustrator, Web Services, Axis, DOJO Toolkit 1.2, AJAX, Spring, Hibernate, Web-Logic 8.1 and 10.3/11gR1 Servers, Glassfish V3 Prelude Server, My-SQL 5.1, Oracle10i, UNIX, Maven 2.1 and Apache Ant 1.8.0, log4j, IBM Rational CCRC (Clear Case Remote Client), SVN, JDK1.5, JSP 2.0, Servlets 2.2, Putty, Win-SCP.