**Shanmugam Utthandy**

**732-618-2487**

**Summary:**

* Seventeen years of progressive experience in design, development, implementation and conversion of software applications using Java/J2EE, Java Web Services (SOAP/REST), Mule, Open source framework (Jersey RESTful/Spring/Hibernate), XMLBeans, RSA7.5.4/Eclipse3.2, Websphere7.0 & Weblogic8.1, Mule3.7/Tomcat, C/C++ and Oracle11g in online Billing, Networking, Telecommunications, Insurance on a Multi-tier architecture.
* Profound knowledge in Object Oriented Analysis and Design (OOAD), Web Technologies, Unified Modeling Language (UML) using Rational Rose/Microsoft Visio and Data Modeling using ERWin Data Modeler
* Hands on experience in implementing Core Java and J2EE design patterns such as MVC architecture using Spring framework and Struts/Velocity templates, Business Delegate, Session Façade, Transfer Object, Value Object, Abstract Factory Pattern, Singleton and Service Locator implementations
* Proficiency in developing Stateless Session Beans (EJB 2.0) as a Model using Weblogic8.1 application serverUsed CMT and BMT methodologies for Transaction Management in Weblogic Server
* Hands on experience in implementing RESTful webservice (using Jersey 1.6) with JSON structure and Two-factor authentication (MFA)
* Hand on experience in implementing Service Oriented Architecture (SOA) with WebServices using SOAP protocol **and** Proficiency in developing XML APIs using XMLBeans with MVC Pattern
* Hands on experience in Spring MVC Controllers and Hibernate DAOsUsed Transaction Template to group multiple DML(s) into a logic transaction unit
* Excellent working knowledge in RSA 7.5.4/Eclipse 3.7, Ant build script and SVN/CVS /AccuRev version control (both in Windows & Unix)
* Profound knowledge in Oracle PL/SQL package/procedure(s) development, Triggers, SQL\*Loader control & PAR scripts and Export/Import utilities
* Strong experience in setting up a full Software Development Life Cycle (SDLC) and an ability to handle the complete cycle
* In-depth knowledge in developing Unix Shell Scripting on Solaris Platform
* Hands on experience in WebSphere7.0/Weblogic8.1 resources such as Connection Pool creation, setting up Data Source for Oracle Server and JMS Queue setup
* Hands on experience in writing Test Cases and Test Suites using JUnit for Test Driven Development (TDD)
* Possess excellent analytical and communication skills, expertise in problem solving and trouble shooting ability

**Education:**

* B.S in Electronics & Communication Engineering (First Class), 1993, IRTT, India
* M.S in E & I Engineering (Distinction), 1995, Anna Varsity (Premier Institute), India

**Certificaions:**

* Sun Certified Java Programmer (SCJP 5.0)

**Technical Skills:**

Languages Java 1.8 / 1.6, J2EE, JDBC 4.2 / 3.0, XML, PL/SQL, HTML, JavaScript, JSP, AJAX, EJB

Open source frameworks JSON, Spring 3.x, Hibernate 3.0, XMLBeans 1.0, JAXB 1.0, Struts 2.x, JUnit, Ant 1.x DatabaseOracle 11g

GUI Anypoint Studio5.4, RSA 7.5.4 / Eclipse 3.7, XML Spy, SQL\*Navigator, SQL\*Developer

Application Servers WebSphere7.0, Weblogic8.1 / 6.1, Tomcat 8/FAST 3.0

Tools Rational Rose 4.x, ERWIN Data modeler, SQL\*Plus, SQL\*Loader,

SVN (SubVerison), CVS/WinCVS, AccuRev

Operating Systems Linux 2.6.x, Windows 7

**Professional Experience:**

**Onwards – JP Morgan Chase, Jersey City, NJ, USA 2012**

**JP Morgan Chase, Jersey City, NJ Aug 2012 – Present**

**Associate**

Working on Infrastructure automation project to automate Linux and Windows builds. Also load balancing thru GNAP services.

Infrastructure Automation workflow invokes many WebServices such as Keon MDS, GNAP, VCAC and CFEngine, to accomplish the entire build process and generates trouble ticket for any failures. As a lead Web Service Developer, Designed and developed JAX-WS/SpringWS SOAP services to invoke third-party services and provide Authentication & Authorization thru LDAP service. Also developed Jersey REST JSON WebService with OAuth2 to support all REST based services and written JUnit test for SSAP code coverage. Designed & Developed security data model for Security services to provide Roles & Permissions of infrastructure workflow. Also learning and writing code in AngularJS 1.5 for UI development of automation portal.

**Responsibilities:**

* Developed Jersey REST JSON WebService with Annotation for Load balancing automation
* Designed and Developed JAX-WS SOAP WebService for Linux Infrastructure automation
* Designed and developed SpringWS SOAP WebService for Database Infrastructure automation
* Deployed the WebServices on Mule/Weblogic/Tomcat containers thru JENKINs/ARM jobs
* Developed a Workflow Daemon thread using Executor Framework, for 24/7 automation solution
* Worked on LDAP authorization for single-sign on
* Developed Activity Diagrams, Sequence Diagrams and Class Diagrams using MS Visio 2007
* Using Eclipse 3.7 as an IDE for Java/FAST 3.0 application development
* Used Maven to build WebService applications
* Working on AngularJS 1.5 for UI
* Writing test suites and unit test cases using JUnit Framework with Java Annotation

**Onwards – Verizon Wireless/Techno Comp, Somerset, NJ, USA 2010**

**Verizon Wireless, Warren, NJ Aug 2010 – Aug 2012**

**Java Lead Consultant**

Worked on Service Content Management platform which has subsystems such as Subscription Service , Billing Event Service, Dispatching Service, Customer Care API, Batch processing, Application Cache and Vendor Callback WebServicesAs a Lead Developer, involved in design and development of JAX-WS Callback WebServices with SOAP 1.2, XML over HTTP APIs for bill provisioning & Customer Care , Advanced Queuing API implementation for Dispatch Service, EJBs for provisioning service and batch XML file processingUsed Java Executor Framework for processing Adavnced Queue messagesDeveloped an application cache using Spring JDBC Framework for WebSphere eXtreme scale object grid and PL/SQL Pacakge/proceduresUsed JAXB for XML parsing, log4j for application logging and ANT for build & deplyoment.

**Responsibilities:**

* Designed and Developed Callback WebService from WSDL using JAX-WS with SOAP 1.2 for MSO cloud services
* Designed and developed application caching for all customer MDN details using WebSphere eXtreme scale object grid technology
* Written multiple Servlets for Billing event service using Java Servlet Technology and deployed in WebSpehere using ANT build script
* Used J2EE design patterns such as Business Delegate, Session Façade, Transfer Object, Value Object, Abstract Factory Class and Data Access Object
* Written Stateless Session EJBs for provisioning service and used Java Reflection for calling vendor specific XML Parsers
* Written many XML over HTTP APIs for Customer Care and bill provisioning using Spring 3.0 MVC Framework and used JSPs as View
* Designed and Developed Vendor Dispatch Service for MDN events using JMS
* Developed Activity Diagrams, Sequence Diagrams and Class Diagrams for SCM use cases using MS Visio 2003
* Used RSA 7.5.4 as an IDE for Java/WebSphere7.0 application development
* Written Oracle PL/SQL packages using REF Cursor methodology for all DML operation with JDBC technology
* Worked on Data Source/JNDI and JVM variables setup in WebSphere 7.0 thru admin console
* Written test suites and unit test cases using JUnit Framework
* Written Shell Scripts to automate the execution of JUNIT test cases
* Involved in re-developing Java/SQL coding standard

**Environment:** J2EE/EJB 2.0, Java 1.6, JAXB 2.2, JAX-WS with SOAP 1.2, Spring 3.0, eXtreme Scale Object Grid 7.1, WebSphere 7.0, Oracle 11g, PL/SQL, Sun Solaris 10, RSA 7.5, Ant 1.8, JUnit 3.8, AccuRev 4.7, Visio 2007, XML Spy 2007

**Onwards – Online Resources (Princeton eCom), Princeton, NJ, USA 2001**

**ORCC, Princeton, NJ Oct 2001 – Aug 2010**

**Senior Software Engineer**

Online Resources is one of the Leading e-billing service and financial servicing company which provides bill payment and presentment services through InternetThe entire product has various components such as PayAnyOne, CashManagementService, ExpeditedPaymentService, WebService connect, eLockBox disbursement service, RealTimeDigitalScanline service and PresentmentServiceI am involved in all components from all stages of Development using Java/J2EE with WebLogic application serverExcellent understanding of each component and technologies used.

**Responsibilities:**

* Worked as a Lead Java Developer in implementing a given release
* Developed Java coding standard document for Internal Java Development
* Used Object Oriented Principles and Designs in developing use cases on Java/J2EE technologies
* Responsible for use case analysis and design solutions that fits existing legacy systems
* Developed and modified ANT build scripts
* Created UML diagrams such as UseCase Diagram, Activity Diagram, Sequence Diagram and Class Diagram using Rational Rose
* Designed and Developed Web Applications using MVC design pattern using open source Struts framework (as Controller) and Velocity templates (as View) and Session Beans (as Model)
* Used J2EE design patterns such as Business Delegate, Session Façade, Transfer Object, Value Object, Abstract Factory Class and Data Access Object
* Developed and executed script for Exploaded Deployment using WebLogic8.1
* Involved in bill presentment service development using Spring/Hibernate open source frameworks
* Written many Stateless Session Beans for batch payment services
* Used Message Driven Bean (MDB) to execute Control Center jobs using WebLogic JMS Queue
* Created Struts custom validation utility classes and configured them
* Used array of payment object in the Struts action forms to collect multi-account payments from single page
* Developed numerous WebService XML APIs using XMLBeans and SOAP protocol to support third party payment services
* Used AJAX technology to calculate the payment fee without user intervention
* Developed Rules Database to make application configurable for Web Branding
* Used Eclipse 3.2 as an IDE for Java/Template development
* Written Oracle PL/SQL packages using REF Cursor methodology to modify data through JDBC technology
* Written test suites and unit test cases using JUnit
* Written Shell Scripts to automate the execution of Java/J2EE batch processors
* Involved in Code Review, troubleshooting and defect fixing

**Environment:** J2EE/EJB 2.0, Java 1.5, Struts 1.2, Velocity 1.6, XMLBeans 1.0, Spring 2.x, Hibernate 3.0, AJAX, WebLogic8.1, Oracle 9i, Sun Solaris 10, PL/SQL, Eclipse3.2, Ant 1.x, XML, JavaScript, JUnit, SQL\*Navigator, Shell Scripts, CVS, Rational Rose 4.x, XML Spy

**Onwards – Mascon, USA / India. 1997**

**Princeton eCom, Princeton, NJ Oct 2000 – Oct 2001**

**Senior Software Consultant**

Princeton eCom is one of the Leading E-Billing service company provides bill payment and presentment through InternetThe entire product is divided by two types, namely Business-2-Consumer (B2C) and Business-2-Business (B2B)B2C product involves loading MAM files and processing payments based on Biller cut-off time and transmits the money fileThe credit process runs after debit process and generates payment information file to the BillerI was involved in the B2C product re-engineering and supporting of an existing system.

**Responsibilities:**

* Studying existing system written in Structured programming technology
* Writing use cases from the existing code base
* Developing new data model using ERWin data modeler
* Modifying existing code base for defects and minor functionality addition
* Created many temporary PL/SQL packages for batch processing (to demonstrate new data model efficiency)
* Automating jobs using Shell Scripts and Crontab utility
* Created use case sequence diagrams using Microsoft Visio
* Worked in a team of consultants to redesign the entire consumer payment service

**Environment:** SUN Solaris 7, Oracle 8i, PL/SQL, C/C++, Pro\*C / C++, SQL\*Loader, Import/Export Utilities, SQL\*Navigator, Shell Scripts, CVS

**Mascon, Chennai, India Apr 2000 – Oct 2000**

**Senior Software Engineer**

Master Card is one of the Leading Credit Card Issuer of the WorldMasterCard Provider System is the data repository for Corporate ProductsThe provider system currently stores hierarchy information as well as transaction information for the Smart Data for Windows, Smart Data OnLine and Smart Data File Express applicationsThe system receives input files from processors and loads the data in the Provider System’s databaseOnce the files are loaded into the system, the output information is shipped to the aforementioned downstream systemsThe present system is processing only english ascii characters, and the obijective is it has to process special characters like Chinese, Japanese, Koren etc., The entire Smart Data application suite has been double byte enabled, and needs a data repository that can store and ship double byte data to these systems

**Responsibilities:**

* Developed class diagrams for batch processing
* Developed batch processors in C/C++, Pro\*C/C++ and Oracle 8i
* Developed an install scripts to create database objects based on Data Model
* Modified existing code to use third party classes to enable Double Byte handling
* Developed many PL/SQL packages for reporting
* Developed regression test suites using Shell Script
* Used PVCS as source code version control
* Managed On-Site/Off-Shore communications and deployment needs

**Environment:** SUN Solaris 7, Oracle 8i, PL/SQL, C/C++, Pro\*C / C++, Shell Scripts, PVCS

**Mascon, Chennai, India May 1999 – Apr ’2000**

**Software Engineer**

Involved in design and development of application using C/C++ to execute programs on remote terminals (called PERT)Activities of a typical data center include running and controlling jobs in a predefined sequenceThis makes up most of the End-of-day activities in a data centerThis sequence of running jobs on multiple machines is called as a PERT (Program Execution on Remote Terminals)

**Responsibilities:**

* Developed class diagrams and written programs using C/C++
* Written TCP/IP Sockets for process communications
* Written C/C++ system programs for parent/child processes (fork/exec) with signal handling
* Written MAKE files to compile entire project in Unix
* Developed regression test suites using Shell Script
* Managed On-Site/Off-Shore communications and deployment needs

**Environment:** SUN Solaris 7, Oracle 8i, PL/SQL, C / C++, Pro\*C/C++

**Sprint P C S - Overland Park, KS, USA Feb 1999 – May 1999**

**Software Engineer**

Involved in Radio Shack PIN Program development for ODL Project, Specific responsibility includes developing Pro\*C2.3 programs and writing K-shell programsThis project is a part of ODL Project which is developed by Sprint P C S and the PIN Project is used by Radio Shack to assign the customer account numberFTP Protocol used to transfer the data files in the ODL data mover module.

**Responsibilities:**

* Developed batch processors in Pro\*C/C++ using Oracle 7.3
* Written install shell scripts to create database objects based on data model
* Developed many PL/SQL package/procedure(s) for reporting
* Developed regression test suite using Unix Shell Script
* Worked in a team of consultants to develop the software system

**Environment:** HP-UX 10.20, Win95, Pro\*C/C++ 2.3, PL/SQL, Oracle 7.3.3

**Informix Corp - Overland Park, KS, USA Dec 1997 – Jan 1999**

**Software Engineer**

This project is to test the interoperability of Informix database with various clients and sever configurationsInvolved in writing C++, ESQL/C, and writing JAVA programs for Informix database to test C++, ESQL/C or JAVA API(s) as a Client and Informix as a ServerDeveloped a program to use Distributed Object Interface in JAVA/RMI for Informix database and tested it

**Responsibilities:**

* Developed basic java standalone programs to test the JDBC operation with Informix database
* Developed stored procedures and executed them thru Java Test Utility tool
* Developed Java/RMI interface to test interoperability and automated all programs using shell script

**Environment:** SUN Solaris, Win NT, C++, ESQL/C, JAVA, JDBC, Informix 7.x

**KPMG Consulting - Chicago, IL Sep 1997 – Nov 1997**

**Software Engineer**

Performed enhancement and testing of Data Replication interface to BANKPRO (Mobile Solution for Banking by SALESOFT)This interface helps to replicate data between two RDBMS such as ORACLE & WATCOM SQL for client/server conceptIt uses the tree logic to calculate the deltasSpecific responsibility includes writing PL/SQL block, Stored-Functions, Stored-Procedures and Pro\*C2.3 programs in Sun OS environmentWritten/modified programs in PB5.0 in Windows 95 environment.

**Responsibilities:**

* Developed PL/SQL package/procedure(s) and function(s)
* Modified existing Pro\*C codes
* Modified existing PB 5.0 codes
* Developed test cases for Integration testing

**Environment:** SUN Solaris, Win95, PowerBuilder5.0, Pro\*C 2.3, Oracle 7.1

**Onwards -Tata Consultancy Services, India/USA 1995**

**Lucent Technologies - Naperville, IL Aug 1996 – Aug 1997**

**Software Engineer**

Performed development and testing of operational system to support European Telecommunication Standard Institute (ETSI) protocol for Advanced Network Services organizationThe ETS defined Intelligent Network Application Protocol (INAP) supports interaction between Service Switching Function, Service Control Function and Specialized Resource FunctionPrograms were written and modified using C++, SLL, PL/SQL and MGTS script in a SUN Solaris environment.

**Responsibilities:**

* Written programs in C++ for advanced networking services
* Modified programs in SLL
* Developed PL/SQL package procedure/function(s)
* Developed MGTS script for testing the network functionalities
* Worked in a team of networking specialists

**Environment:** SUN Solaris, C++, SLL, Oracle 7.1, MGTS Script

**C N A Insurance - Chicago, IL May 1996 – Jul 1996**

**Software Engineer**

Involved in development of Long Term Incentive Compensation Plan (LTICP), LTICP is designed to retain high caliber employees by providing a bonus plan, which provides increasing compensation for highly profitable operating resultsThe software was developed using three tier Client/Server architecture with PowerBuilder4.0 as the front end and Oracle 7.1 on HP-UX as the backend databaseSpecific responsibility includes design of on-line screens, coding, study of bonus calculation and design of tables.

**Responsibilities:**

* Developed an install script for creation of database objects
* Developed configurable BONUS calculation system
* Designed and developed graphical user interface using Power Builder 4.0
* Worked in a team of on-site consultants

**Environment:** HP-UX 10.20, Windows 3.1, PowerBuilder4.0, Pro\*C2.3, Oracle 7.1

**TCS - Bombay, India Apr 1995 – Apr 1996**

**Software Engineer (Trainee)**

Involved in converting the INFOREM software system (which runs on IBM host), to Client/Server environment using PowerBuilder4.0/Oracle 7.1 platformSpecific responsibility includes writing program specification from existing code (PL/1), writing functional specifications from the program specifications, designing new system, developing three batch programs on Pro\*C, development of stored procedures and tables in Oracle 7.1, development of test cases for the new system, development of on-line screen using PowerBuilder4.0

**Responsibilities:**

* Developed program specifications based on existing source code
* Developed batch programs in Pro\*C
* Developed PL/SQL package procedure/function(s)
* Designed and developed graphical user interface using Power Builder 4.0
* Developed unit test cases and assisted in client acceptance test
* Worked as team player and demonstrated an ability to handle on-site/offshore communications

**Environment:** UNISYS 6000, MS Windows3.1, PowerBuilder4.0, Pro\*C2.3, Oracle 7.1

**Academic Project - Anna Varsity, Chennai May 1994 – Apr 1995**

**Graduate student**

As a graduate student designed and developed a GUI Based Adaptive Fuzzy Logic Control System for control applicationsIt follows the concept of FUZZY LOGICIt is designed as a general package and tested for an inverted Pendulum System.

**Responsibilities:**

* Study of Fuzzy Logic Control
* Designed and developed a graphical user interface for Adaptive Fuzzy Logic Control
* Demonstrated the complexity between Neural Network and Fuzzy Logic Control

**Environment:** MS-WINDOWS 3.1, MS-DOS 6.2, C++