Amit Dixit

EXPERIENCE:

- More than **14** years' experience in developing enterprise level solutions for Cable, Broadcasting and Telecom domain.
- Experience in application development using **Java/Scala** based technologies.
- Experience of developing **SOAP/REST** based web services.
- Experience of build automation, deployment activities using **Capistrano, Chef**, **Vagrant, Docker, Kubernates and Packer.**
- External CRM integration experience on **Salesforce**, **NetSuite**, **ZenDesk, Zoho** and **Microsoft Dynamics.**
- Single Sign On based security setup in network based applications.
- Performance improvement and memory profiling of JVM based applications.
- Performance and functional testing for **XMPP**, **DNS, ESPP** and **SIP** based services.
- **Certified Scrum Master** with scrum management experience in agile teams.
- **AWS Solution Architect Associate** with cloud migration experience.
- Open source exposure **to** various **GitHub** projects.

TECHNICAL SKILLS:

- **Programming language:** Java, Scala
- **Web frameworks:** Struts, Spring, Axis, CXF, Atmosphere, Akka
- **Parallel computation frameworks:** Hadoop, Spark
- **JavaScript frameworks:** JQuery, SmartClient, Prototype, Play
- **Middleware:** EJB, Active MQ, SOAP/REST WS
- **Application/Web server:** Apache, Tomcat, Oracle 10g, WebLogic, JDeveloper, JBoss, Jetty
- **Security:** SAML, SiteMinder, SSOCircle, Kerberos, Spnego, NTLM
- **Data base:** Oracle, MySQL, MongoDB
- **Tools:** Eclipse, SVN, CVS, Git, Log4j, Log4back, Ant, Maven, Jira/ Confluence, Bugzilla, JPivot/Mondrian, Splunk, SOAP UI
- **Cloud:** AWS, Packer
- **Build automation:** Capistrano, Chef, Vagrant, Docker, Kubernates
- **Code quality tools:** JUnit, JMeter, PMD, Checkstyle, Sputnik, Sonar, PSI Probe, Jvisualvm, Byte code viewer, Wireshark, Tcpmon
- **BI/ETL:** Pentaho, Tableau
- **Operating Systems:** CentOS, Ubuntu, Solaris

PROFESSIONAL EXPERIENCE:

December 2009 - till date	**Impetus InfoTech Pvt. Ltd.**
August 2008 - December 2009	**Tavant Technologies**
February 2005 - August 2008	**Impetus InfoTech Pvt. Ltd.**
March 2004 - February 2005	**Sunup Software (Acquired by Motorola Mobility)**

PROJECT DETAILS:
Impetus Data Warehouse Workload Migration

Company: Impetus InfoTech (India) Pvt. Ltd   April 2016 to till date
Role: Technical Architect

Technologies used: Spark, Hadoop, Java/Scala

Description: Impetus Data Warehouse has got an intelligent workload offloading solution to automatically migrate conventional data base query entities like SQL queries, procedures, and packages to Hadoop equivalent entities like HiveQL or SparkSQL. Participated in the design of a Change Data model component, which can suggest the Query Model change based on optimization possibilities like Join order change, Column merge or column split etc.

Responsibilities:
- Requirement gathering, providing proof of concept to engineering
- Product engineering alignment and Program management buy-in
- Engineering plan and timeline

Telephone Number Porting data reporting system

Company: Impetus InfoTech (India) Pvt. Ltd   September 2014 to January 2016
Role: Technical Architect

Technologies used: Java, Axis, Oracle, Hadoop

Description: It was a reporting application that provides American telephone industry standard reports. Reports are used by the Telephone service companies to comply with government regulations. Various other reports for providers' internal purpose, are also generated by the system like Number of TN Ported in/out during a period etc.

Responsibilities:
- Requirement gathering, providing proof of concept to client, estimation, design, delivery, test and support.
- Upgradation of logging framework: Updated existing commons logging framework to extendable log4j.
- Web service: A SOAP based web service for telephone number porting history search.
- Hadoop Reports: Many standalone map reduce based reports.
- Development of various standalone applications: Many standalone Java process are developed to perform customer data upload and application maintenance.

Server push based web service

Company: Impetus InfoTech (India) Pvt. Ltd   July 2013 to September 2014
Role: Lead Software Engineer

Technologies used: Spring, Atmosphere, Tomcat, MemCached, JQuery, Ant, ActiveMQ

Description: Active MQ is the backbone of server side for event propagation and intimation. Some customers are interested in directly subscribing all real time events of Virtual Contact center product. This application was created using Atmosphere server push framework to send real time JMS events to all web clients.

Responsibilities:
- Requirement gathering, providing proof of concept to client, estimation, design, delivery and testing.
- Development/design of complete service: Selected Atmosphere/Spring after review of all technologies based on review analysis.
- JMS infrastructure: Implemented Spring based JMS connection framework to integrate JMS communication in Atmosphere classes.
- Business Logic: Created Java based beans to convert JMS properties to XML/JSON formats.
- Testing, Bug Fixing, bench marking and release: Functional, unit testing is done using JUnit; Performance testing is done using JMeter. Memory profiling is done using Eclipse Memory Analyzer tool (Mat). Google PSI probe is used for Tomcat memory profiling.

REST based web service

Company: Impetus InfoTech (India) Pvt. Ltd   May 2010 to July 2013
Role: Lead Software Engineer

Technologies used: Apache CXF, JAXB, Ant, Spring 3.0 core, LDAP template, log4back, PLSQL, Salesforce SOAP API, SOQL/SOSL, Microsoft Dynamic CRM SOAP API, ZenDesk REST API, NetSuite CRM

Description: This application is the adaptor for serving all types of CRMs to the customers of customers on demand call center hosting solution. A telephony/email/vmail/chat provider with integration support to all standard industry CRMs. Developed a **JSR-311/REST** based service to give a generic interface for agent interaction GUI in PHP.

Responsibilities:
- Requirement gathering, providing proof of concept to client, estimation and delivery.
- Development of REST Services: Developed a JSR-311 based web service using Spring/CXF.
- CRM Integration: Integrated SalesForce, NetSuite, Zoho, Microsoft Dynamics CRM and ZenDesk ticketing system.
- Business Logic: Created adapter classes for connecting to external CRMs.
- Object Pooling: Apache DBCP, Spring LDAP template, LDAP connection pooling.
- Testing, Bug Fixing, bench marking and release: Functional, unit testing is done using JUnit; Performance testing is done using JMeter.

Data (SIP to ESPP Protocol) convertor

Company: Impetus InfoTech (India) Pvt. Ltd   December 2009 to May 2010
Role: Lead Software Engineer

Technologies used: Apache Axis 2. XML beans, log4j, PLSQL

Description: Our client wanted to use Cable labs supported protocol ESPP for provisioning telephone numbers to Mobile Service Operators. We have created a SIPIX to ESPP Server convertor. The SIP publish interface is used for downloading the SIP data and provisioning directly to ESPP server. This requires lots of message format conversion and transactions management between SIP and ESPP

Responsibilities:
- Web Services: Created web services clients using xml beans, Dummy web service for testing.
- DB Procedures: Created DB procedures for DB handling.
- Business Logic: Created business logic in plain JAVA classes for parsing the SIPIX to ESPP messages.
- Testing and Bug Fixing: Functional, Unit testing is done using JUnit.

Content Manager and Publisher

Company: Tavant Technologies (India) Pvt. Ltd   October 2008 to December 2009
Role: Technical Lead

Technologies and Environment: Sun System Server, Spring Web Flow, Pentaho, JQuery and Sun OS

Description: Customer was managing various internet sites like gunsnroses.com eltonjohn.com etc. Customers' content manager is a role based browser based content organizer for creating and publishing the MIME type web content for various MLB hosted internet sites. The content managed may include CSS, image media, audio files, video files, electronic documents, and Web content

Responsibilities:
- Development of Framework: Spring controller classes designed according to requirement. Java script classes using JQuery.
- Requirement Gathering: Analysis, Use case identification, Technology induction and team mentoring.
- Testing and Bug Fixing: Functional, Unit testing is done using JUnit.

Telephone Number Resolution Service using DNS

Company: Impetus InfoTech (India) Pvt. Ltd   January 2008 to October 2008
Role: Module Lead and Onsite Coordinator

Technologies used: Smart Client, Spring Web Flow, AJAX, Oracle 10g, Linux, Tomcat, XML Beans, EJB (Session), JBoss

Description: This product is actually meant for providing a mutual point of contract between multiple Telco service providers and also for serving individual needs of customers. The service facilitates IP interoperability by translating telephone numbers to IP-based addresses. Interoperability is particularly important in facilitating the uptake of emerging services such as MMS, IMS and Packet Voice. Based on Carrier ENUM, NRS is available to mobile operators, fixed network operators, and related service providers. Operators can utilize NRS to position new services behind the telephone number already used by subscribers. Whenever a telephone number is used to identify an end user, the NRS service will facilitate the discovery of URI containing information specific to the service being provided. The service

supports Tier 0 (global level), Tier 1 (country level) and Tier 2 (operator level) ENUM functionality. NRS lowers costs and improves network efficiency by providing number portability corrected destinations.

Responsibilities:
- Development of Framework: Created framework, Developed Spring controllers.
- Web Services: Created web services clients using xml beans.
- DNS Search service: A DNS based query interface in Java was developed.
- Testing and Bug Fixing: Functional, Unit testing is done using JUnit.

SIP based routing info provider

Company: Impetus InfoTech (India) Pvt. Ltd   February 2006 to December 2007
Role: Module Lead and Onsite Coordinator

Technologies used: Apache Axis, Smart Client, Spring, AJAX, Oracle 10g, Linux, Tomcat, JNDI, XML Beans

Description: SIP protocol is used for exchanging voice over internet. This product is actually meant for providing a mutual point of contract between multiple SIP service providers and also for serving individual needs of customers. This product consists of two main functionalities one is Profile Engine second is Policy Engine. There are three kinds of profiles which are required for VOIP device, Customer Name (CNAM), Address of Record (AOR), CONTACT. Policy Engine is used for creating policy between customers. Beside of these functionalities some other functionality is also provided like user authentication using LDAP role based management etc. Radvision SIP stacks are used for SIP communication.

Responsibilities:
- Development of Framework: Created framework, Developed Spring controllers.
- Web Services: Created web services clients using xml beans,
- Testing and Bug Fixing: Functional, Unit testing is done using JUnit, JSunit. Performance and Functional Testing of SIP servers.

Enhanced 911 web application

Company: Impetus InfoTech (India) Pvt. Ltd   November 2005 to till January 2006
Role: Module Lead and Onsite Coordinator

Technologies used: Apache Axis, Spring, Oracle 10g, Linux, Tomcat

Description: E911 is a vastly known service in USA. This number is used for attaining emergency services like police, medical etc. Mobile Service Providers like Verizon, Sprint etc. in America already provides that facility on their existing CDMA and GSM numbers. But now a day VOIP based phones are used for better and low coast utilization. This project is to enable 911 services on VOIP numbers. This project includes validation and refinement of data provided by phone callers to the emergency call center executive, and returning them the valid data with respective routing information. This valid information is used for getting the closest available facility to the calling user.

Responsibilities:
- Development of Framework: Created framework, Developed JSP, Servlet.

- Web Services: Created SOAP web services, clients.
- Development of Database Accessing Code: Created DAO Pattern based classes, stored.
- Procedures in PL/SQL.
- Testing and Bug Fixing: Unit testing is done using JUnit.

Age Verification Service using SOAP

Company: Impetus InfoTech (India) Pvt. Ltd   August 2005 to November 2005
Role: Module Lead

Technologies used: JSP, Servlet, Apache axis, Apache struts, JDBC, log4j, Oracle 10g, Linux Fedora, Apache Tomcat.

Description: Our client is a neutral provider of technology services to telecommunication providers in North America and Internet service providers around the world. In their product AVS the information sent to it and got verified whether it is valid or not. In telecom domain where a client is accessing secured information through web or mobile, requires some credibility verification, AVS in addition with carriers (e.g. Verizon)'s database helps systems to validate the users.

Responsibilities:
- Development of Framework: Created Struts framework, Developed Jsp, Servlet, Action classes.
- Created Java API: Created Caching Mechanism for storing objects.
- Web Services: Created SOAP web services, clients.
- Development of Database Accessing Code: Created JDBC codes, Connection pooling. Stored procedures in PL/SQL.
- Logging Mechanism: Created logging framework using log4j.
- Graph UI: Created Graphs in kava chart third party API.

Live Capital Decision Express web portal

Company: Impetus InfoTech (India) Pvt. Ltd   March 2005 to July 2005
Role: Developer

Technologies used: JSP, Servlet, Struts 1.2, WebLogic 8.1, Oracle 9i

Description: Live Capital provides a credit-decisioning solution that helps enterprises manage their commercial credit operations more effectively and profitably. It offers solutions for credit decision process by automating clear Approve and Reject decisions, and managing workflow to smoothen the manual review process for exceptions in credit decisioning. This product helps organizations throughout the credit cycle - from the time a new credit application is submitted, to the time a credit decision is made, and then throughout the life of the customer relationship. Decision Express can streamline credit operations, and provides tools to monitor the risk exposure and also identify when an action needs to be taken.

Responsibilities:
- File Upload Utility: Developed File upload utility for uploading customer data using multipart/form facility of servlet.

- Framework Up gradation: Upgraded the MVC framework. Migrated to struts 1.2.7, created new Controller, view Components.
- Server Side validation: validation of user provided data is done using struts 1.2.7 validation framework.
- Created Web Services: Web Services created, created an ant based tool for generating client code and deploying the service.
- JDBC specific command files: Created CMD files for executing application specific queries.
- Testing and Bug Fixing: Verified SPR (bug reports) after fixing the errors.

Asset Management and Propagation web portal

Company: Impetus InfoTech (India) Pvt. Ltd   January 2005 to February 2005
Role: Developer

Technologies used: JSP, Servlet, Struts 1.1, Oracle 9i, JDeveloper 10g, JBPM 2.0

Description: Whether you produce and air or distribute your own content or purchase rights to acquire air or distribute others content, you have the need to store and move content. Physically managing tape and server-based content and managing the rights of content that is being acquired, aired and/or distributed. Whether your process is still people-centric or fully automated, Sunup's product can manage it for you with the following applications that can be customized to conform to and automate your operations:

- Automatic import of product information including rights and versions.
- Automatic propagation of assets based on schedule and on-demand needs.
- Off-Air recording to tape devices or servers with movement to digital archive.
- Customized settings for automatic recording & archival for later playback.

Responsibilities:
- Framework designing: Designed the customized MVC based struts framework for the AMP application.
- Implemented JBPM with OC4J: Workflow Engine JBPM is used for managing the workflows of this application. User puts data using JSP and code translates that data in a process definition file that is used by workflow manager for managing the process.
- Development of Business Workflow Module: Created server Side validation using struts1.1 framework, action classes, JSP with tag libs.
- Bug Fixing: Bug fixing is done in JavaScript validation and struts validation framework.

Content Procurement and Management System web portal

Company: Impetus InfoTech (India) Pvt. Ltd   March 2004 to January 2005
Role: Developer

Technologies used: JSP, Servlets, EJB, Struts 1.1, Oracle 9i, JDeveloper 10g

Description: In current broadcast operations, the process of managing the contracts and payment obligations to the content providers is a combination of processes that is not well integrated, tedious, and

error prone. CPMS product is an integrated Content Provider Management System that integrates these processes in a seamless manner. Specifically, CPMS is comprised of:

- Complete contract management and tracking of various revisions of contracts.
- Definition of financial models for payment splits with the content providers.
- Management and tracking of campaigns and business rules for promotional campaigns.
- Interface with the financial system to post payments owed to content providers.

Responsibilities:
- Framework designing: Designed the customized MVC based struts framework for the cpms application,
- Development of PPV Module: Created EJB, Server Side validation using struts 1.1. Created action classes, JSP using tag libs.
- Conversion of validation Framework: Validation Framework upgraded to struts validation

EDUCATION:

2003   Bachelor of Engineering (I.T)   CCS University Meerut India