David Fernandes

**SUMMARY:**

* Over 9 years of IT experience in Requirements Analysis, Design, Development, Implementation and support of high end applications based on J2EE technologies
* Strong experience in implementing Web based projects using IDEs like **Eclipse.**
* Experience in **Object Oriented Analysis & Design.**
* Extensive knowledge in working with core java, J2EE technologies such as **Servlets, JSP, JDBC, EJB, JNDI, Java Beans, JMS and Object Oriented Programming** techniques.
* Intensive knowledge in databases like **Oracle 11g, SQL Server,** O/R Mapping, **Hibernate, and JPA**.
* Experience in designing web pages using **HTML** and **JSP**.
* Working knowledge of **Servlets**,
* Experience in usage of MVC frameworks like **Struts** and **Spring**
* Usage of ORM framework like **Hibernate** and **JPA**.
* Working knowledge of **SOAP, REST Web Services**.
* Experience in deploying applications on Web Servers like **Apache Tomcat, Web Sphere, Web logic, Glassfish.**
* Extensive development experience on different IDE’s like **Eclipse, My Eclipse, Net Beans.**
* Experience writing unit test cases using **JUnit**.
* Experience in writing **ANT, MAVEN** build file
* Familiarity with usage of **design patterns (Singleton, DAO, Factory, Command etc.)**
* Experience in XML related technologies like **JAXP, JAXB, XML, XSL, XSD, XPATH, DTD, and XML Schemas.**
* Experience in using **DOM** and **SAX** parsers to process, validate, parse and extract data from **XML** files.
* Experience in various **Agile** methodologies like **Test Driven Development (TDD), SCRUM,** and **Pair Programming.**
* Extensive experience in implementation of the version control software **SVN, VSS, CVS**.
* Solid understanding of all phases of **SDLC** right from requirements to post implementation support
* Strong System Analysis, de-bugging, documentation and data analyzing skills

**SKILL SET:**

|  |  |
| --- | --- |
| Operating System | UNIX, Linux, Windows 8, MAC |
| Programming languages | Java 7.0, C++/C# |
| Middleware/Distributed Technologies: | J2EE, EJB, JMS, SOAP, REST |
| Server side programming | Java Servlet, JSP, Custom Tag Libraries. |
| Scripting Languages | JavaScript, HTML, CSS, DHTML, XHTML, SQL, Shell Script. |
| Modeling languages | Knowledge in Design patterns |
| Java IDE | Eclipse 3.0. |
| Databases | Oracle 10g/9i and MySQL (SQL) |
| Web Servers | Apache Tomcat Server 8.x |
| Application Servers | Web Sphere 5.1, JBoss Application Server, Weblogic 10 |
| Framework | Struts, Spring 3.0, Spring Core, Spring MVC, Spring DAO, Spring Webflow, Spring ORM. |
| ORM Tools | Hibernate 3.0 |
| Editors | Ultra Edit, Edit Plus, XML Spy, Eclipse |
| Cloud | AWS |
| Tools | Adobe Dreamweaver, SQL Developer, Putty |
| Version Control System | VVS, SVN |
| Testing | JUnit, ATDD, JPerformance, Wiremock |

**Project Summary:**

**Capital One, Plano, TX Feb 2016 – Present**

**Java/J2EE Developer**

Capital one is a financial company that offers credit cards, loans auto, checking accounts and more. they still heavily rely on main frame, however they main goal is to remove data center. Therefore they have been encouraging main frame developers to switch to a modern computer language so they keep update with today's market.

**Project:** Financial

* Building Rest Api’s to interchange between client side and the server side.
* Deploying Rest Api’s Application in AWS Cloud.
* Writing JUnit 4 to test Rest Api’s.
* Writing ATDD test in Ruby code for testing application response.
* Agile methodology.
* JPerformance for testing application performance.
* Building application using Maven 3.0.
* Spring Framework for handling application request.
* Developing Message framework for Asynchronous service using Kafka.
* Monitoring application using Splunk.
* AMI hybration and tear down old instances in AWS.
* Automation testing using Jenkins.
* Java Programming Tutor for Main Frame Developers.

**Environment:** Java 1.8, Spring 3.0, JUnit 4, Ruby, Maven, AWS Cloud, Chef, Docker, Microsoft Windows, Linux, Version One, Putty, Github, GitBash, Subversion, XML, Wiremock, Json, Splunk, Nexus, Postman, ARC, Cassandra.

**State Street Corp, Boston, MA May 2015 – Dec 2015**

**Java/J2EE Developer**

GWT is a development toolkit for building and optimizing complex browser-based applications. Its goal is to enable productive development of high-performance web applications without the developer having to be an expert in browser quirks, XML Http Request, and JavaScript. State Street Corp. uses this toolkit for customers can have easy access to its product.

**Project:** Financial

* Provided technical guidance to business analysts, gather the requirements and convert them into technical specifications/artifacts.
* Used Object-oriented analysis (OOA) for object-modeling techniques to analyze the functional requirements for a system.
* Used JUnit to write repeatable tests.
* Used log4j for tracking errors and debugging the code.
* Deployed flow of Execution in the Servlet Environment using STRUTS.
* Designed and maintained the website.
* Built Application using MVP pattern
* Automating the build & deployment process using ant.
* Deployed the application in Apache Tomcat container & Cloud.
* Experience in Agile methodology.
* Use IDF Framework for Web Services
* Extensive experience in implementation of the version control software CVS.
* use gwt-ext technology to develop applications.
* created store procedure using PL\SQL to gather the valid Data from back end

**Environment:** Java, Apache Tomcat, Servlets, Xml, DB2, SQL, CVS, Linux, Apache Ant, GWT-ext, Javascript, Clearcase, Clearquest, Windows8.

**Apple, San Jose, CA Aug 2014 – May 2015**

**Java/J2EE Developer**

**Project: Jive6 Upgrade**

**Summary:** Jive is social business software. This application responsible for customizing the existing software according to new requirements of Apple. This customization is implemented by developing Jive plugins.

**Responsibilities:**

* Used FTL  in struts framework
* Testing web application using automated frameworks
* Involved in using JSF 2.0 for developing Web components
* Used  Jive as collaborating tool
* Used Flash Builder for developing Flex components
* Used spring framework for dependency injection.
* Deployed Ear files in Application Server
* Involved in using JDBC for database access
* Involved in designing the system using UML use case diagram, class diagrams, sequence diagrams, component diagrams and activity diagrams using Rose.
* Developed SQL queries and Procedures using SQL and PL/SQL.
* Involved in Test data creation , Unit testing  using JUNIT
* Used Postgres database
* Use spring framework for enterprise architecture
* Involved in implementing SOA architecture to implement j2ee web services using soap/ http and xml/http and Restful web services
* Used EJB for Synchronous module with JPA as Data Access Layer.

**Environment:**  JDK 1.6, Springs 3.0, Struts2, JIVE, Apache Maven 3.0.3, FreeMarker templates, Postgres, restlet/soap web services, json, JavaScript, html, Selenium 2

**Erie Insurance, Erie, PA** **Oct** **2013 – Aug 2014** **Java/J2EE Developer**

**Responsibilities:**

* Provided technical guidance to business analysts, gather the requirements and convert them into technical specifications/artifacts.
* Used Object-oriented analysis (OOA) for object-modeling techniques to analyze the functional requirements for a system.
* Designed and developed Customer registration and login screens using HTML, Servlets and JavaScript.
* Developed high-performance web applications using Struts and FTL with Http Objects.
* Configured spring and EJB to manage Actions as beans and set their dependencies in a context file and integrated middle tier with Struts web layer.
* Wrote JavaScript validations to validate the fields of the user registration screen and login screen.
* Dealt with Hibernate open source ORM framework for persistence management.
* Designed a network of web pages, where the user progresses through an application by selecting links, resulting in the next page being transferred to the user and rendered for their use using RESTful.
* Designed and developed STRUTS, implemented event handling using Java, STRUTS, and JavaScript for various modules.
* Configured JDBC and LDAP Security in the application server.
* Used JUnit to write repeatable tests.
* Used log4j for tracking errors and debugging the code.
* Implemented Spring MVC architecture and increased modularity by allowing the separation of cross-cutting concerns using Spring AOP.
* Deployed flow of Execution in the Servlet Environment using STRUTS and defined Navigation Rules.
* Developed Messaging frame work for Asynchronous service using JMS.
* Involved in unit testing and system testing and responsible for preparing test scripts for system testing.

**Environment:** Java, J2EE, Servlets, Struts, JMS, Hibernate, Spring, EJB, Web services, JDBC, REST, UML, HTML, JavaScript, CSS, XML, Log4j, Oracle 10g, JUnit, JNDI

**Parallel and Distributed Computing Laboratory, Detroit, MI Jun 2012 – Sep 2013 Java Developer**

**Projects: Algorithms, Multithreading, Optimization, Parallel and Distributed Computing, Cluster Computing, Bioinformatics**

Bioinformatics is one of the areas where high performance computing is desired to reduce the computation time of large applications. The algorithms such as Smith Waterman, Needleman Wunsch, BLAST, and ClustalW are all DNA/RNA Sequence comparison algorithms which are computationally expensive. Implementing, testing and analyzing these algorithms on various architectures with both parallel and distributed computing were the main focus.

**Responsibilities:**

* Analyzed various Compute Intensive applications.
* Analyzing the performance of algorithms in Parallel and Distributed Environment.
* Implemented the above algorithms in Parallel and Distributed Environment.
* Multithreaded implementation using java core programming.
* Involved in Performance Analysis of these algorithms on various architectures.
* Involved in development of the application using Struts framework.
* Performed validations using Java Script.
* Developed the code using JSP, JSF, Spring Framework, Hibernate3.0, Web Services, Java Script, JMS, JNDI, XML, XSLT and HTML.
* Developed presentation layer using JSP, JSF, CSS, AJAX, JavaScript, and JSF Tag Libs.
* Developed Spring Based Web services (SOAP) through XSD and WSDL.
* Developed JSPs to provide dynamic content to the HTML pages.
* Designed and maintained the website.
* Assisted in writing a book chapter for the book mentioned in the publications above.
* Involved in Group discussions, poster presentations.

**Environment:** C, C++, JAVA, Assembly Language, JSP, JSF, SOAP, HTML, UNIX, LINUX, SOLARIS, Windows, Dreamweaver.

**HP, Palo Alto, CA Sep 2011 – May 2012 JAVA Developer**

The HP Network Node Manager I-series Smart Plug-in for IP Telephony (iSPI for IP Telephony) extends the capability of NNMi to monitor and manage the IP telephony infrastructure in the network environment. The iSPI for IP Telephony presents additional views to indicate the states of discovered IP telephony devices and display the overall health of the IP telephony infrastructure

The iSPI for IP Telephony, in conjunction with NNMi, performs the following tasks:

* Automatically discovering of the IP telephony infrastructure
* Displaying the IP telephony devices in the IP telephony views
* Monitoring the status of every discovered component of the IP telephony infrastructure

**Responsibilities:**

* The project is a multi-layer Struts/Spring framework/JMS/Web services/Oracle web application with a few millions users.
* Responsible for Analyzing, designing, developing, coordinating and deploying web based application.
* Understanding the functional requirements and prepared a detailed Use Cases and Functional Requirement Documents from the Business Requirements Specifications.
* Design and developed Gateway remote connect / disconnect module and show total energy consumed for the entire house module.
* Developed required Action classes, presentation layer forms using Action Form beans and Java beans containing the business logic.
* Developed Data Access Objects (DAOs) and business delegates for accessing data.
* Developed Message Driven Bean (MDB) components for Gateways.
* Worked on HQL and hibernate criteria queries.
* Multithreading application using java core.
* Develop and maintain elaborate services based architecture utilizing open source technologies like Hibernate ORM and Spring Framework.
* Created Hibernate classes to transfer the data to the database.
* Developed Stored Procedures and Functions, Views for the Oracle database (SQL)
* Code refactoring to get an advantage from technologies upgrade including usage of Generics, enums.
* Created Web Services client (SOAP, WSDL) Components.
* Developed unit and functional tests for the new functionality.
* Involved in impact analysis of change requests and Bug fixes.
* Automating the build & deployment process using maven and ant.
* Documenting the installation and deployment processes for a smooth production release and helping the deployment team to set up different servers.

**Environment:** Java, J2EE, Spring, Hibernate, JMS, LDAP, Oracle 10g, XML, Web Services, Spring MVC, SQL, Subversion, SMTP (Java Mail), Maven, Ant, Apache Axis, Jtest, XMLBeans, Log4j, JUnit, Selenium, Web Logic Application Server, Middlegen plugin, Windows XP, Agile scrum

**EMC Corporation, NC Jun 2010 – Aug 2011 JAVA /J2EE DEVELOPER**

EMC Celerra Manager is a web application that enables intuitive management of EMC Celerra IP storage (NAS and iSCSI) solution--and ensures high availability. Celerra Manager helps configure, administer, and monitor the Celerra networked storage from a single online interface--saving time and eliminating the need for a dedicated management workstation.

**Responsibilities:**

* Actively participated in High-level Design and low level Design for different modules in the project.
* Used different Design patterns, like MVC, Controller Servlets, Singletons, Value Objects while implementing the framework and Factory.
* Multithreading application using java core.
* Extensive use of spring framework.
* Implemented hibernate mapping for the statistics data for different storage Objects and programming using Hibernate API.
* Thin client rendering: HTML, Tag Libs, JavaScript, XML, JSP and Servlets.
* Eclipse used as Java IDE tool for creating JSPs, Servlets, EJBs, and XML.
* Coded Maven build scripts to build and deploy the application on Web logic.
* Developed the statistics graph using JSP, Applets and Swing in a multithreaded architecture.
* Involved in production support (bug fixing) and enhancements of the product.
* Used unit to automate Unit testing.

**Environment:** Java, Spring framework, Hibernate, Servlets, JSP, JSTL, Custom tag libraries, XML, Linux Shell Scripts, JAXB, HTML, Ajax, Apache Tomcat4.2, Eclipse 3.2, Oracle 9i, Linux.

**Media Transcode Publish System, NBCU, NY. Aug 2009 – Apr 2010 JAVA Developer**

**Description:**

The project is to publish the video clips to Mobile medium. Video files are uploaded using a front end applet, which is then transcoded into format supported by Mobile / Broad Band / Hulu. The files are then sending to approval manager to get approval. After the approval the branding manager will add default bumpers and trailer for this clip and make a clip list with these clips. And published to carriers /service provider’s liker Verizon, Cingular etc.

**Responsibilities:**

* Analysis and Development
* Designing and developing application using java core.
* Developing Action classes in Struts.
* Developed dynamic pages using JSP and Servlets.

**Environment:** Struts 1.2, JSP, Oracle9i, JBoss 4.0, & Eclipse 3.2, HTML

**Cygnus Software Pvt Ltd. Jan 2008 – Jul 2009 Project: COMPERHENSIVE INSURANCE MANAGEMENT SYSTEMS, WA, DC, USA. Role: Java Programmer.**

CIMS is online-based project. The main objective of this project is to provide the information about the Policies, Payments and Client’s personal details. Here only client side module is developed i.e. (Policies, Transactions, and Self Details). All users that mean new customer or existing client can understand and operate efficiently. CIMS provides the user name and password to the client and enter into the site and get the details accurately. The clients have restrictions to changes or modify the information about the payments.

**Responsibilities:**

* Used **Servlets** for developing the application logic.
* Created web pages using **JSP**’ for generating HTML pages dynamically.
* Implemented Database connectivity with **JDBC** for communication between application and Oracle 8i database.
* Developed **JSP** pages for presenting Web content using eclipse.
* Developed HTML reports for various modules as per the requirement.
* Deployed the application in Apache Tomcat container.
* Implemented Unit test specification for checking inconsistent data types, overflow, and under-flow conditions.
* Involved in **Normalization** of Database and created stored procedures using **SQL**

**Environment:** Java, Apache Tomcat, Servlets, JSP, JDBC, HTML, Oracle 8i.