**Jyothi Rayavarapu (U.S Citizen)**

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**Objective:**

To obtain a challenging position in Information Technology that gives an opportunity to explore and utilize proven technical and analytical skills involved in various stages of the SDLC and to utilize organizational abilities to gain business experience and domain knowledge.

**Summary**

1. Over nine years of experience in the IT industry, involved in analysis, design, development, implementation, testing and maintenance of application software in Client/Server, Internet/Intranet and Distributed Architecture.
2. Ability to work in highly collaborative, team-oriented environment.
3. Proficient in **ManualTesting** and **Automated Testing.**
4. Involved in developing, executing and maintenance of Test Plans, Test Data, Test Specifications, Test Scenarios and Defect Reports.
5. Proficient with testing tools like **ClearQuest, ClearCase, Artisan Studio** and **Serena PVCS Version Manager.**
6. Experience encompasses software design, development and maintenance of custom application software.
7. Performed all aspects of software quality assurance: **Development of Test plans and Test cases, Unit, Integration, Regression, Sanity & Acceptance testing**
8. Experience in Databases **Oracle7x / 8i, MS-Access.**
9. Strong in **Object Oriented Programming & Designing Distributed Computing and Web programming.**
10. Expert level of programming skills in **SQL.**
11. Expert level skills on **Java, Java Applets, SWING, Multithreading, JDBC, HTML.**
12. Familiar with popular **Object Oriented Design Pattern** concepts.
13. Extensively used **UML and Rational Rose for Object Oriented Design in real-time applications.**
14. Experience in **Unix, Network Programming using TCP/IP, Sockets, UDP, and Threads.**
15. Proficient in using **Waterfall and Agile methodologies.**
16. Excellentin **problem solving**, **logical** and **analytical** abilities**.**
17. Knowledge of **XML** and **UML**.
18. Good communication and interpersonal skills.

**Skills Summary**

**Operating Systems :** WinNT, Win2000, WinXP, UNIX

**Languages :** FORTRAN, Java, JSP, Struts, EJB

**Packages :** MS OFFICE

**RDBMS :** Oracle, SQL, MS Access

**Multimedia Applications:** Web Publishing, Front Page, Adobe Photoshop, and Dream Weaver.

**Tools :**  JDK1.4, Eclipse, JBuilder, Rational Rose (UML), Artisan Studio**,** IBM Rational Team Concert

**Testing Tools :** Rational PurifyPlus, Rational ClearCase, Rational ClearQuest, Rational

Performance Tester, SoapUI

**Methodologies:** Waterfall, Agile

**Design Patterns:** MVC

**HP Technologies, VA July ’12 – June ‘16**

**Java Developer**

* Worked on a project called ‘VA Enrollments/Benefits' for Department of Veteran Affairs'
* Involved in the design and development of the application
* Coordinated the preparation, internal and external reviews of the deliverables
* Involved in supporting the Integration Testing, Regression Testing and User Acceptance testing
* Involved in preparing the test data as required for testing
* Actively led two different test teams through all the testing phases

**Environment:** JDK1.6, J2EE, EJB, Servlets, JSP, HTML, JMS, Eclipse 4.2, Weblogic 12, Windows XP, SQL, Manual Testing, ClearCase, ClearQuest, Jazz, Rational Performance Tester, Agile

**Eventure Technologies, VA July ’11 – July '12**

**Java Developer**

* Worked on a project called ‘Memorial and Performance Usability Enhancements’ for Department of Veteran Affairs.
* Involved in the Design phase of the project and created the mockups and screens and the logic that goes into the design document for the application.
* Involved in coding the GUI and the backend part of several modules in the application using Java, J2EE, Struts, JSF, JSP, Weblogic, Apache Tomcat, Oracle.

**Environment:** JDK1.6, J2EE, EJB, Servlets, JSP, CSS, HTML, JMS, Eclipse 4.2, Weblogic 12, Unix, Windows 2000/ NT, PVCS, SQL, Manual Testing, JSF, Agile

**Verizon, Ashburn, VA Jan ’11 – July ‘11**

**Java Developer**

* Worked on a project called ‘Automated Promo Biller’ that is part of the VZ Billing Systems.
* Involved in developing and testing of several modules for this application using Java, J2EE, JMS, Weblogic and Oracle.
* Involved in testing the GUI of the application.
* Involved in writing the test cases/test scripts for the testing involved.
* Involved in System, Integration and User Acceptance Testing of the application.

**Environment:** JDK1.6, J2EE, EJB, Servlets, JSP, CSS, HTML, JMS, Eclipse 3.7, Weblogic, Unix, Windows 2000/ NT, UML Use Cases, PVCS, SQL.

**IBM, Dulles, VA July ‘07 – April ‘10**

**E2E Designer/QA Lead**

* Worked for a group called CTI (Cycle Time Initiative) on SE&A AT&T account.
* Involved for several projects throughout the SDLC to evaluate and assess these projects for any possible defects/ risks involved up front and thereby help in delivering the final deliverable in lesser time and also achieving improvement in software quality.

**Developer/Test Lead**

* Worked for a USPS project called SASS. Involved in development/testing of the system.
* Developed and maintained Java, VB and PL/SQL applications for the domestic side of this application.
* Involved in creating test scripts and scenarios for the domestic and international payment streams.
* Involved in testing both domestic and international applications, validate results and analyze conformance to requirements.
* Involved in preparing the final deliverables that are to be sent to the client and other interfaces involved as a part of the system integration and customer acceptance testing.

**Environment:** JDK1.6, J2EE, EJB, Servlets, JSP, CSS, HTML, JMS, Log4j, Eclipse 3.3, Weblogic, Windows 2000/ NT, Artisan Studio, UML 2.0 Use Cases, PVCS, SQL, Manual Testing, Rational ClearQuest and ClearCase.

**Lockheed Martin Corp., Rockville, MD June ’06 – June ‘07**

**Java Developer**

* Developed and maintained Java applications for a program called AFSS (Automated Flight Service Stations services) which is a product of FAA.
* Coded and implemented the application interfaces using Java Swings, HTML, CSS, EJB’s, Servlets, RMI technologies.
* Involved in identifying the Test Cases by reviewing the Use Case and User Interface specification.
* Writing the Test Steps for the identified Test Cases.
* Updated the Test Steps by reading the Requirement/Design documents associated with functionality.
* Testing the functionality in the FS21 Lab using the Test Cases.
* Logging the defects identified in the test lab. Redline the Test Cases and update them.
* Report the status to Test Plan Architecture; Make the Test Cases ready for FAT(Final Acceptance Testing) testing.
* Attend the inspection on the written Test Cases and make updates based on feedback/comments.
* Involved in testing several applications in the system, validate results and analyze conformance to requirements.
* Implemented the GUI for the back-end applications using Java AWT and Swings.
* Provided application based support, maintenance, updates, upgrades, and modifications on the code.
* Also involved in the administration of the middleware services i.e. LDAP servers and Message Broker servers used by all the applications in the company.

**Environment:** JDK1.4, Java Swings, CSS, HTML, JMS, LDAP, RMI, Chainsaw, Eclipse 3.2, Sun Application Server, Sun Solaris, Windows 2000/ NT, Artisan Studio, UML 2.0 Use Cases, PVCS, SQL, Manual Testing.

**Versar Inc., Springfield, VA May’04 – Dec'04**

**Associate Web Developer**

* Designed and Developed several websites for the company using Dreamweaver.
* Connectivity with Oracle Database, MS-Access (JDBC) using type 1,2,4 Drivers.
* Requirements gathering and documentation.
* Provided Network Administrative support for the computer department.
* Java, Swings, HTML, CSS, JavaScript, Adobe Photoshop, etc.
* Involved in day-to-day operations of Novell (4.X/5.X) network.
* Use of SQL with MS-Access and oracle 7.0 to work with local database.
* Involved in writing test scripts for the application and was also responsible for Unit, Integration and Regression testing of the application.

**Environment:** JAVA, JSP, JDBC, JavaScript, HTML, CSS, Oracle, Tomcat, JBuilder-3.5, Adobe Photoshop, Dreamweaver, Windows 2000/ NT, SQL, Manual Testing.

**GT e Solutions Ltd., India Jul’99 – Jul’00**

### **Web Developer**

Developed an Internet application that facilitates the trade of vintage stamps. The main features include information of main dealers, the philately terminology, encyclopedia of rare stamps, virtual museum, price guide & comparison, fakes & forgeries, expertise & authentication, online sale and auction of stamps. Additional features are mail server, e-mail, e-greetings, chat- rooms, and bulletin board.

1. Responsible for designing and development of the user interfaces.
2. Involved in the front-end validations using JavaScript.
3. User Login Registration and Authentication.
4. Involved in the development of database application by using JDBC API.
5. Creation of database tables with constraints, triggers, views etc.
6. Involved in writing test plans and automated test cases using Rational PurifyPlus.

**Environment:** Java, JSP, JDBC, Swings, HTML, CSS, Oracle, Eclipse, Windows 2000/ NT.

Developed an Intranet / Internet application, which facilitates customized User Registration, Login, and mail web pages. Sender & Receiver modules work with the SMTP & POP3 protocols to handle the mail transmissions. User can setup for secure and non-secure communication using digital signatures.

1. Involved in designing and development of the user interfaces using AWT and Swing.
2. Customized user login registration and authentication.
3. Developed a mail client which can connect to any POP3 / IMAP server using SSL.

**Environment**: Java, Swings, Servlets, JDBC, JavaScript, HTML, CSS, Oracle, Tomcat, Swing, Eclipse, JBoss, Windows NT/00

# **Microland Ltd. Bangalore, India Jul’98-Jun‘99**

# **Software Engineer**

Learning management System is used as a template to construct instructional courses. Microland started to design and develop a product on lines, similar to Web-ct and planned to market the product to various industries seeking employee training in specific concentrations. The goal was to develop optimized and very fast downloadable modules to give the end user a real time experience while using applications like White Boards and chats. The other modules included discussion forum, online quiz modules, tracking classroom sessions, course backup, administering courses, course management, feed back for class sessions & white boards and student tracking.

**Responsibilities:**

LMS Product Design and Development.

Installed configured and administrated IIS and made the product compatible with all kinds of browsers.

Developed Servlets, EJB’s, JSP’s, and deployed in APACHE web server.

Developed Stored Procedures for database query processing.

Developed EJB’s, Servlets, Core java Components using Swings and designed JSP’s using J2EE.

Involved in Creating EJB’s for developing business logic and database interaction.

Used JDBC API to Connect to oracle database and also stored procedures for using SQL Queries.

Wrote and executed test plans and test cases for testing of applications with web-based interfaces.

Conducted internal training for employees of Microland in Java and related technologies.

# **Environment:** JAVA/J2EE Environment, JDK1.1.7/1.2.2, Swings, Oracle 8i, JavaScript, Internet Information Server, JDBC 2.0,Enterprise Java Beans, Servlets, Applets, JSP, HTML, CSS, JBoss, JBuilder.

**Technical Projects:**

Software Engineering for World Wide Web:

1. Simulated a Web-Site Management System that automates the process of updating the university’s ISE (Information Systems Engineering) web site using Java Servlets, JSP, JavaBeans, HTML and XML.
2. Developed an Email Manager using Java Mail API with features to send emails with and/or without attachments. Program also manages sent and trash folders and sorts emails using various options.

Software construction - Design of Web-Based Banking Software System:

1. Developed a banking software with several features like Online Account creation, make online payments, transfer functionality between accounts, apply for loans, query access to account holders etc.
2. Analyzed and designed the project using UML and implemented the design using Java and JDBC.
3. Also, developed several other programs using UML, Java and JDBC such as Simulation of a Gas Station, Simulation of a Concurrent Automated Car-Wash System using multithread programming in Java.

Software Design Testing & Quality Assurance:

1. Designed Requirements Model, Analysis Model and Design Model using UML
2. Designed ER-Diagrams for the system initially and then developed Relational Model and some appropriate queries related to the database using SQL
3. Designed a user-friendly Interface for a “Realtor Website”.
4. Performed Software Testing at the Unit, Module, Subsystem and System levels.
5. Generated and Validated test data using manual and automatic techniques.
6. Studied Static vs. Dynamic analysis, Functional testing, Inspections and Reliability assessment.

Computer Networking:

1. Developing a Proprietary Client Server application in Network Application development using Socket programming with TCP and UDP to transfer an audio file from a client to server.

**Presentations and Publications**

1. Wrote Technical Research Paper on ‘TCP/IP Protocols’ as part of Computer Architecture course work.
2. Wrote Technical Research Paper on ‘Capability Maturity Model (CMM)’ as part of Software Requirements and Analysis coursework.

**Education**

1. M.S in Information Systems, George Mason University, Fairfax, VA.
2. B.S in Civil Engineering, Jawaharlal Nehru Technological University, India.