**SOWMYA GONUGUNTLA**

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**Masters in Computer Science Graduated June-2016**

University of Illinois, Springfield, ILGPA: 4.0/4.0

**Bachelors in Computer Science** **Graduated May-2015**

JNTU, Hyderabad, India GPA: 3.5/4.0

**Summary**

Good knowledge in SDLC that includes Software analysis, Specification, Design, Development and Testing for Client-Server and Web applications using **Java/J2EE** technologies.

* Expertise in the Object Oriented Programming concepts like Inheritance, Encapsulation and Polymorphism.
* Experienced in Application development using concepts like Multithreading, Serialization, Externalization, Collection framework, Generics, Core Java Components.
* Experience in developing User Interfaces using HTML5, CSS3, Java Script, jQuery and AJAX.
* Extensive knowledge in working with J2EE technologies such as Servlets, JSP, Spring and Hibernate.
* Extensive experience in developing applications using Spring Framework that includes configuration of Spring Application Context withInversion of control, Dependency Injection, MVC, ORM, Aspect Oriented Programming support.
* Good knowledge on working with SOAP and REST Web Services to produce and consume data.
* Experienced in build tools like ANT and MAVEN.
* Extensive Database development skills using SQL, Stored Procudues, Triggers, Functions.
* Experience in working with Databases like Oracle and MySQL.
* Experience in developing and deploying applications through Tomcat 6.0 and application servers like JBoss.
* Experienced in working on Operating systems like Windows 2000/XP/7/8/10, Windows Server 2003, Unix (Sun Solaris, AIX) and Linux
* Good knowledge on UNIX Shell Scripting.
* Experience in developing the applications using Eclipse IDE and NetBeans.
* Expertise in unit testing using Junit.
* Ability to adapt to new technologies, changing business requirements and correct application of latest tools for application development.
* Highly motivated, detail oriented, effective team player with excellent analytical, interpersonal and communication skills.
* Ability to work both individual and in team environments.

**Technical Skills:**

**Languages and Technologies:** C, C++, Java, J2EE- Servlets, JSP, Spring, Hibernate, EJB, JMS, XML.

**Web technologies:** HTML5, CSS3, Java Script, JQuery and AJAX.

**Database:** Oracle 9i, MySQL, PL/SQL, MS Access, SQL Developer

**Web Services:** SOAP, RESTful, WSDL, JAX-WS, JAX-RPC, Jersey

**Application Servers:** XAMPP, WAMP for Windows, Apache Tomcat, JBoss, JBoss fuse, WebLogic and WebSphere.

**Scripting languages:** Shell scripting, Python, Django

**IDE’s and utilities:** Eclipse, NetBeans, RAD.

**Operating systems:** Windows 2000/XP/Vista/7 and UNIX.

**Design skills:** UML, MS-Office, MS-Visio, Rational Rose

**Unit Testing:** Junit

**Code Repository:** GIT, SVN

**Work Experience:**

**Pennsylvania Higher Education Assistance Agency (Feb 2017 – Till Date)**

Harrisburg, PA, United States

**Role:** Java Developer

**Responsibilities:**

* Followed Agile Methodologies to manage full life-cycle development of the project.
* Designed UML diagrams using Microsoft Visio.
* Developed the User Interface using HTML, CSS, Java Script and JSP.
* Worked on Spring and Hibernate frameworks for Data handling.
* Involved in implementing Hibernate API and JPA for Database connectivity.
* Worked on Spring MVC framework and configured the beans and wired them as per the requirement.
* Worked on Hibernate to create ORM Mappings, Inheritance and fetching strategy, performing CRUD operations and managing second level Cache.
* Developed SQL Stored Procedures and Prepared Statements for updating and accessing data from Database.
* Worked on Database Triggers using PL/SQL.
* Worked on XML, XSLT and XSD to parse the request and create the new one based on specification.
* Designed and used SOAP Web Services to communicate with Applications to insert and retrieve the documents.
* Designed the SOAP Web Services using JAX-WS and WSDL using Top down approach.
* Worked on Maven Scripts to build and deploy WAR files to QA environment.
* Developed the Unit Test cases using Junit.
* Involved in tracking the bugs using JIRA and Quality Center.

**Environment:** JDK 7, MicroSoft Visio, Html, Css, Java Script, JSP, Spring 4, Hibernate 4, DB2, XML, XSLT, XSD, SOAP, Maven, Junit

**Academic projects:**

**Master’s Program:**

**Admission management system (June 2016)**

**Description:** The project is a web based application built with an aim of computerizing the admission procedure in schools and colleges. The proposed system incorporates handling and managing multi-departmental and multi-divisional system that includes many activities.

**Role:** Team lead

**Responsibilities:**

* Developed the application using JSP, Html, jQuery, JavaScript, Spring and Hibernate and implemented the application using J2EE design patterns like Spring, DAO (Data access object).
* Designed and developed the User Interface using HTML, CSS, JQuery and JavaScript.
* Involved in building accordion style content, drag and drop functionality, popups and modal windows using jQuery.
* Deployed Java Servlets and JSP pages for retrieving user information and posting related data.
* Designed and integrated full scale Spring and Hibernate Persistence solution with application architecture.
* Used Spring MVC concept of front controller to handle requests from the client and process it at the backend.
* Developed Database objects like PL/SQL packages and stored procedures.
* Worked on writing UNIX commands and Shell scripting.
* Involved in the deployment of application on Tomcat server.
* Created Unit tests to test the functionality of application.

**Related Masters Coursework**

Computer Network Principles, SAN Essentials, Advance Database concepts, Trends in Info Security, Database Admin Practicum, Foundations of Network Security and Information Assurance, Virtualization Essentials, Graduate Research Seminar.

**Bachelors Program:**

**Cloud based data automation** **(May 2015)**

**Role:** Team lead

**Description:** This project involves web mining tools and technologies and cloud computing to develop queriable forms and reports to access the CSE Department data archives. This involves collection of student data and organized into MYSQL backend database.

Webservers supported with PHP engine connected to college website will be sued to develop coding. Forms are designed and reports are generated for results.

**Responsibilities:**

* Involved in all the stages of Software Development Life Cycle (SDLC).
* Developed entire application using Java, J2EE and PHP.
* Developed the presentation layer using HTML, CSS and jQuery.
* Applied OOAD principles for analysis and design of the system.
* Used server side Spring framework and Hibernate for Object relational mapping of Database structured in Oracle.
* Created POJO layer to facilitate the sharing of data between the front end and J2EE business objects.
* Developed various SQL queries and PL/SQL Procedures in Oracle Database for the application.
* Implemented complex triggers and stored procedures in Oracle database.
* Implemented Maven as a build and configuration tool.

**Unique ID Barcode generation**  **(Jan 2014)**

**Description:** This project is used for unique identification of people with barcode. The details of a person are stored and a 25 letter random string is generated. From that string, a barcode image for the unique identification of a person is generated. This barcode is used for the authentication purpose.

**Responsibilities:**

* Involved in all the phases of Software development including requirement gathering, analysis, design, coding and testing.
* Involved in the design of the UML diagrams using Microsoft Visio.
* Developed the User Interface using HTML, CSS and Java Script.
* Developed the dynamic web pages using Servlets, JSP and Java Script.
* Involved in authentication using custom tags.
* Integrated front end with MySQL Database using JDBC API and also involved in writing complex SQL queries.
* Involved in deploying the application under Apache Tomcat Server.
* Developed the application using Eclipse IDE.

**Related Bachelors Coursework**

Computer Programming, Data structures, Computer Organization, Database Management Systems, Java Programming, Design and Analysis of Algorithms, Principles of programming languages, Software engineering, Compiler Design, Operating Systems, Information security, Object oriented analysis and Design, Software Testing methodologies, Web technologies, Linux programming, Design patterns, Data warehousing and Data mining, Computer Graphics, Information retrieval systems, Web services.

**Publications**

**Sowmya**, **G.,** Vamshi, B., Navya, G., Naganjaneyulu, KV., (2015). **A study of privacy preservation in Data Mining**, International Journal of Research & Development Organization.

**Sowmya, G.,** Akash, B., Chandrakanth, S., Naganjaneyulu, KV., (2015). **Internet of things: Applications, Barriers and its status**, International Journal of Research & Development Organization.