Soundarya Lakshmi Akula

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❖ **Brief Summary:**

A technology driven professional having 8+ years of IT experience and 6+ Years of Java/J2EE experience and working knowledge in UI/UX, front-end technologies with diverse range of backgrounds including R&D, internal business units, start-ups, who has accomplished a rich combination of research and technical expertise. Worked on several challenging and complex projects in Core Technology areas - distributed system, embedded systems, Web Application Development and attained a considerable wealth of experience in all phases of the software development cycle, handling large codebase, debugging an algorithmically complex piece of software, and solving problems that require in-depth evaluation.

❖ **Professional Summary:**

* 8+ years of experience in analysis, design, developing, testing and implementation of various applications, 6+ years of experience in application development using **Java** and **J2EE.**
* Hands on experience on Agile Scrum Methodology. Experience in Object Oriented (**OOP**), J2EE and Client Server technologies.
* Excellent knowledge on Application Development using **Software Development Life Cycle SDLC** using various methodologies like **Waterfall, Agile/Scrum.**
* Complete knowledge of Agile and SCRUM structure of software development by conducting meetings and co-ordinating with the team members to meet the deliverables.
* Extensive experience of working **in Test driven development (TDD)** and agile development environments.
* Expertise in OOAD Technologies developing use cases, **Activity** Diagrams, **Sequence** Diagrams and Class Diagrams using case tools like **Microsoft Visio** and **Rational Rose**.
* Strong analytical, debugging skills with experience in fixing ad hoc production issues.

## Java/J2EE:

* Experience in developing web applications on MVC based frameworks like **Spring, Spring IOC, Spring MVC, Spring AOP, Spring Data, Spring Security** and **Spring Batch.**
* Experienced in developing applications using **Core Java, JDBC, Servlets, JSP, EJB, Struts, Java Beans, Hibernate, Maven, node.js, API, JPA** and **MVC architecture.**
* Experience working with **MAVEN** and Java/J2EE code migration to **MAVEN**.
* Expertise in Core Java with strong understanding of **Garbage collector, SWING, Collections, Multithreading, Event handling, Exception handling and Generics.**
* Expertise in **Spring Boot, Microservices and Microsoft Azure.**
* Experience in developing web services using **JAX-RS, Jersey, JAX-WS and JAX-RPC.**
* Experience in Service Oriented Architecture and Integration technologies in the areas of **Restful Web Services, SOAP Web Services, SOAP UI, WSDL and XML.**
* Expertise in XML technologies such as DTD, XSL, XSLT, XML, XPath, XSL-FO and parsers like SAX, DOM.
* Strong programming practice with **OOAD (Inheritance, Polymorphism, and Encapsulation)** and knowledge in Design Patterns **(Creational, Structural, MVC, Factory, Singleton, DAO, DTO, Observer and Behavioural)** in the development of multi-Tier distributed Enterprise Applications.
* Experience in the functional usage and deployment of applications in **IBM WebSphere, JBoss,** **WebLogic, Glassfish, Camel and Apache Tomcat Server.**
* Experienced in dealing with performance and scaling of servers using tools like **JProfiler, JMeter**, and **VisualVM**.
* Experienced in development and troubleshootingWeb based and enterprise-based applications on **Windows** and **GNU/Linux platforms.**

## Databases:

* Hands-on experience in Relational DBMS like **MySQL, Oracle SQL (PL/SQL), SQL Server (MS SQL) and DB2**
* Hands-on experience in Graph DB **Neo4j**.

## Frontend:

* Developed various applications using **Javascript** and **Typescript** related libraries such as **React.js**, **Angular**, **Node.js** and **jQuery** for Web-Development. Experience includes 1.5 years of experience with Angular 2+ versions.
* Made applications responsive using Media Queries and Bootstrap and made applications cross browser compatible.
* Used **CSS**, **SASS**, **LESS**, **BOOTSTRAP**, **Material** **Design** and **HTML** templates.

## Testing Tools:

* Expertise with **Unit Testing**, **Integration Testing**.
* Developed **ATDD** (Acceptance Test Driven Development) test cases using java for the written code.
* Performed unit testing using **JUnit** and **Mockito** aiding **Test-Driven Development(TDD)** in some scenarios.

## Integration tools and other:

* Hands on experience with tools like **ANT, MAVEN** debugging through logging frameworks like **log4j**, **slf4j**
* Experience working in a CICD environment using **Jenkins**, Concourse - **Jira**, **Confluence**.
* Extensive development experience on using various tools like **IntelliJ IDE, Eclipse IDE**, **Spring Tool Suite (STS) and Visual Studio Code**.
* Used version control software **Git, SVN** and **Clearcase.**

**❖ Technical Skills:**

| Programming Languages | Java, Python, C, C++, SQL, PL/SQL, Shell Scripts |
| --- | --- |
| Web Technologies | HTML, DHTML, AngularJS, Javascript, Typescript, JQuery, XML, XSLT, CSS, JSON, JSON-DTD, AJAX, Bootstrap |
| J2EE Technologies | EJB, Servlets, JSP, JSTL, JDBC, JSF, RMI, JNDI, JMS |
| Databases | MySQL, Oracle, DB2, Neo4J |
| IDE | IntelliJ, Eclipse, STS and VS Code |
| Application/Web Server | IBM WebSphere, Oracle WebLogic, JBoss, Apache Tomcat 4.0/5.0/6.0, Web Logic 8.1/9.1, Web sphere 7.0, Web Sphere Application Server 8.0, Glassfish, Camel, JBoss |
| XML Technologies | XML, XSL, XSLT, SAX, DOM, AXIS, XML Beans and JAXB. |
| Web Services | Spring Microservices, SOAP, REST |
| Methodologies | Agile, Waterfall, Test Driven Development |
| Frameworks | Struts, CSS Frameworks, Spring (Dependency Injection, Spring MVC, Factory Pattern, Core, Spring Context, Spring DAO, Spring IOC, Spring JDBC, Spring Security, Spring Boot, Spring with Hibernate)  ORM Frameworks - JPA, Hibernate, Spring JPA, DAO |
| Version Control | Git, SVN (Apache Subversion), Clearcase |
| Operating Systems | Linux, Windows |
| Other Tools | Maven, ANT, Log4j, Jenkins, Docker, JUnit, JIRA, Lex, GNU Family of tools (gdb, gcc, gprof), git, Perforce, Unreal Engine, PyCharm, Source Insight, VMware, Klocworks, trucov, lcov |
| Cloud Environments | AWS Cloud, Microsoft Azure |
|  |  |

**❖ Professional Experience:**

**Standard Chartered Bank June 2021 – Present**

**Role: Tech Lead**

**Description:** Our Team handles different datasets and processes Metadata Search and generates Priority Report and helps to visualise data lineage.

**Responsibilities:**

* Design and develop applications using **Agile** Methodology, participating in all agile events like Daily **Scrum** Meeting, **Sprint** **Planning**, **Backlog** **grooming**, **Sprint** **retrospective**
* Implement business layers for **API’s** and deliver enhancements to the application as user stories for every **sprint**, using **Core** **java**, **Spring** **boot** using **Spring** **Microservices**.
* Involve in writing application-level code to interact with **APIs**, **Restful** **Web** **Services** using **AJAX**, and **JSON**.
* Configuration of application and properties files to bring up the containers for the **spring boot** application.
* Using version control repository as Bitbucket to track code changes and commits.
* Utilise Camel to integrate **microservices** with other **microservices** and **RabbitMQ** messaging exchanges.
* Perform End to End testing of web services using the **Postman** tool to validate request and response xml for **REST** web services.
* Design and develop REST based **Microservices** using the Spring Boot.
* Integrating Micros services-based API’s with **Splunk** to analyse logs.
* Development and Integration of the application using JBoss **EAP**, **IntelliJ**.
* Written **Mockito Junit** test cases to test code functionality and quality. Testing Rest API availability using **Postman**. **Unit Testing and Integration Testing** is done for services with an average code coverage greater than 80%.
* Create **APIs** based on **Microservices** **architecture** to orchestrate data from different data sources
* Implement the **Slf4j** to log the entire application.
* Handling **Release** **Tasks**: Drafting Application Installation Guide (AIG) for service and Database.
* Participated in a design plan for migrating the existing **Oracle DB** to **Neo4j graph database.**
* Querying with **Cypher** for the **Neo4J** graph database.
* Mentoring new Trainees in Core **Java** and **Spring** framework.
* Working with business owners, product owners, designers, and developers to implement a high- quality user experience.
* Ensuring smooth transition of application into production with Software Design, Programming and Unit Testing.
* Ensure coding standards and code quality using **lint**ing, peer reviews, and tools like **sonar** dashboard and monitor application using **Splunk** dashboard.
* **Rundeck** **Scripts** were handled for Deployment of application in QA and SIT Context.
* Expertise in creating Web services like **SOAP** and **RESTful**, **Spring** **MVC**, **Spring** **Boot**, **Micro** **services**, **Hibernate**, **Maven**, **jQuery**, **JavaScript**, **Oracle** and **SQL** **Server**, hands-on experience on monitoring tools like app **Splunk**.
* Having experience on open-source tool for maximum benefit in development process: **JIRA, JUnit, Mock, Maven, Jenkins, Bit Bucket, Swagger, Confluence, SOA, Web Services (SOAP / REST), XML / JSON, Splunk.**

Technologies and Tools Used: Java 8, Python, Spring Framework, SpringBoot, SQL, Neo4J, Angular 2/4, Vue.js, Node.js, JavaScript, HTML5, CSS, Bootstrap, Git, GitBash, IntelliJ, VS Code, Rundeck, Restful, jQuery, Hibernate, JPA, Microservices, PL/SQL, JBoss, Docker, RabbitMQ, Slf4J, Maven, Windows, Junit, Mockito, JIRA.

**Teapot Games Nov 2018 – May 2021**

**Role: Lead Developer**

**Description:** Lead Developer in an organisation which has 7 years of experience in Game Development and published 10 games that clocked more than 10 million downloads, won multiple IGDC awards and selections for showcasing across the world.

**Responsibilities**:

* Development of smart AI using TensorFlow to provide varied and smooth gameplay experiences to customers.
* Designed and Implemented a custom navigation mesh for the procedurally generated map in the game ‘Enemy Waters’ using A\* algorithm. Working on training AI agents to learn from human behaviour to incorporate in Multiplayer Cooperative mode in the game ‘Enemy Waters’.
* Developed in-house web application using **Java** and **Spring**.
* Implemented **Log4j** tool to log the entire application.
* Developed **Controllers**, **Service** and **POJO/Model** classes.
* Involved in writing test cases using **Junit**, Used GIT/GITHUB for Version Control.
* Responsible for creating and maintaining architecture for the Rest API using Spring Boot.
* Implement exchange and data handlers in Java utilising various protocols and API.
* Developed **RESTful** service interface using **Spring MVC** to the underlying Agent Services API.
* Worked with IBM WebSphere Server connecting the AI
* Created various Spring Boot and Spring Batch applications to connect them to various databases and created queries to retrieve data and modify them in the database.
* Experience in working with different versions of **Angular**.
* Developed responsive behaviour for applications using **bootstrap** and **media** **queries** to ensure application is **Cross-Browser** compatible.
* Improved performance of **Angular** application using lazy loading, change detection strategy.
* Setup **Jenkins’s** server and build jobs to provide automated builds based on polling the GIT source control system.
* Responsible for **Continuous Integration (CI) and Continuous Delivery (CD)** process implementation using **Jenkins along with LINUX Shell scripts** to automate routine jobs.
* Created web services using **Spring @Rest Controller** to return **JSON** to the frontend.
* Experience with migrating from **python** to **java**.
* Used **Spring boot** Framework for **MVC** for writing Controller, Validations and View
* Involved in the analysis, design, and development and testing phases of Software
* The Settings Modifier tool is developed using **python** for duplication and application of desired settings for assets in bulk and adding prefixes to assets based on their type/class.

**Tools and Technologies used:** Java/J2ee, Python, C++, Tensorflow, Keras, Angular, Maven, Spring boot, Git, PL/SQL, AWS cloud, Unity, Unreal Engine, Eclipse

**Silmaril Software PVT LTD**  **Sep 2013 - Dec 2016**

**Role: Senior Software Developer**

**Project 1: Student Application Management**

**Description**: SAM is an application processing system developed using Java, Angular and Spring framework with a user base of over 50,000 students.

**Responsibilities**:

* Handling **DEV**, **UAT** and **PROD** server tasks which involve troubleshooting, and application deployment on the server.
* Working in an Agile Team and hence participating in all agile events.
* Developing and delivering enhancements to the application as few user stories every sprint.
* Responsible for application build process migration from traditional to Mavenization and cleaned up unnecessary dependencies.
* The **MAVEN** building tool is used for creating **WAR** files to be deployed in the application servers, it is also used for Dependency management of code in the application.
* Involved in writing **JUNIT** test cases and day-to-day builds and deployments using **MAVEN**.
* Participating in Architecture planning of the **Cloud** application with the aim of reducing downtime and making it scalable, thereby enhancing user experience.
* Participating in the design plan for **migrating** the existing **on-premises application** to **Cloud**.
* Developing File upload to **Azure** **Blob** utility using **Azure** Storage SDK for **Java**.
* Developing **Cloud** Storage solution using **Microsoft** **Azure** **Blob** for uploading documents from on-premises applications to cloud.
* Evaluating various cloud service options to implement the best possible secure approach for connecting to **Microsoft Azure** services from On-premises network.
* Implementing **authentication** in **Cloud** **Storage** solutions to make secure calls to **Azure** **blob** services over the Internet.
* Used **Spring Security** for Authentication and authorization extensively.
* Setup **Jenkins**’s server and build jobs to provide automated builds.

**Tools and Technologies used:** Java, Angular, JavaScript, HTML5, CSS, SQL, Spring Framework, Spring Boot, SVN, Git, Eclipse, Maven, Nexus Repository, Docker, Microsoft Azure

**Project 2: Student Assessment Tool**

**Description: Student Answer paper real-time evaluation**

**Responsibilities:**

* Developed Student Assessment Tool on raspberry pi using Python, allows examiners across the globe to log into a computer-based system, and perform real-time student paper (soft copy) evaluation and assigning grades.
* Responsible for complete lifecycle of product design starting from gathering and analysis of business requirement, technical analysis, data modelling, and technical design of product.
* Designed automation framework to test product, created infrastructure for the project. Worked in a very stringent timeline.

**Tools and Technologies used:** Python, Raspberry pi, Shell.

**Nokia Siemens Networks Sep 2011-Jul 2013**

**Role: Research & Development Engineer**

**Description:** HSDPA improved the data transfer rate by a factor of at least five over W-CDMA by using different techniques for modulation and coding. It creates a new channel within W-CDMA called HS-DSCH, or high-speed downlink shared channel, which allows for faster downlink speeds for high data demands such as video and streaming music.

**Responsibilities**:

* Worked for the development of the MAC layer of 3G-WCDMA base stations (HSDPA). Specific areas were MAC-hs Scheduler, Resource Manager, Harq, Evam, etc.
* Responsible for discussion, implementation of new features in C language following cmt++ metrics.
* Module Guardian of Ack/Nack handling, which included reviewing all the code changes and functionalities coming as part of new development or maintenance.
* Fixed Bugs in the software produced during Software Development Life Cycle.
* Brought up the fixed-format Unit Test Environment to check functionality and capture errors across Mac-HS and Designing Configuration files.
* Done Unit Testing for the features developed by me. Stabilised MT scenarios for Various Modules in each component like Scheduler, Resource Manager Etc. were tested using the Module Testing environment. Test Cases were written using Python.

**Tools and Technologies used:** C, Shell, Python2, Source Insight, gdb, trucov, gcov, lcov, cmt++, Code Composer Studio

**General Electric (GE) Jan 2011-Jul 2011**

**Role: Software Trainee**

**Project:** Atlas Services

**Description**: In x-ray machine software development, Atlas is the core component used by all platforms. Atlas defines a set of standards and common tools for coding, build, etc.

Responsibilities**:**

* Component’s code is revived in C/C++ for successful build and to perform necessary actions.
* Verified Build, delivered packages and released sysconfig.
* Automation was done for different components to generate cycling reports.
* Fixed System Problem Records (bugs).

**Tools and Technologies used:** C, C++, CORBA, Shell and Clearcase.

**❖ Academic Qualification:**

•Masters in Information Technology, International Institute of Information Technology (**IIIT- B**), India, 2009 - 2011

•Bachelors in Computer Science & Engineering, Andhra University, India ,2005-2009