**Sudha Ghanta**

**Full Stack Java Developer**

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PROFESSIONAL SUMMARY

* **Having 9 years of experience in delivering** cloud and enterprise solutions in conceptualizing, designing and coding technical solutions using **Java/J2EE** and **UI** technology stacks to satisfy peculiar and complex business problem statements.
* Experienced in all periods of **Software Development Life Cycle** (**SDLC**) including **Analysis**, **Designing** and **Developing**, Debugging, Support, Integration, Maintning and **Enhancements** of **Java/J2EE** Applications.
* Working on **spring Boot, Spring Rest** template to develop application level **MicroServices** and Hands Java, JPA and maven etc.
* Working broadly in Model View Controller (**MVC**) designing for web improving utilizing **Spring MVC,** JSP, JavaBeans and Servlets.
* Experienced in Middleware persistence frameworks like **Hibernate/JPA** Entities for mapping **Java 17** classes using **Hibernate Query Language** (**HQL**), **HSQL** Named Queries, Criteria, and Projections.
* Proficient in implementation of **frameworks** like **Struts 2.x/1.x, Spring 4/5, EJB3.2, JSF** and **ORM** frameworks for persistence like **Hibernate**, JPA**.**
* Expertise in Front-End Developing using **Angular 12/8, NodeJS, React JS,** Groovy, JavaScript**, Express-JS,** jQuery, Jasmine, Ext-JS, Grunt, AJAX, XML, JSON, XSLT, CSS3, HTML5, XHTML, Bootstrap**.**
* Good experience in Front-End UI developing skills using scripting languages like **HTML5, DHTML, CSS, JavaScript, JSON, AJAX, Angular JS,** Bootstrap, jQuery with Standard Validations.
* Extensive experience in **Java, J2EE** technologies such as Servlets, JSP, Struts, **Spring, Hibernate**, Swings, Applets, JSF, EJB, JPA, RMI, JMS, JNDI, Ibatis, Web Services, JMS, JSTL, JDBC, Multi-Threading etc**.**
* Designing and creating business applications utilizing JSP, Servlet, EJB, JSF, JMS, JDBC, Spring, Struts**, Hibernate, SOAP and REST API** administrations.
* Designing and developing asynchronous **RESTful** **MicroServices** using **Spring Boot**, **Couchbase** and **Java 17**
* Strong knowledge of **AWS Cloud** application and security models, protocols and tools like AWS IAM, AWS S3 bucket, secrets manager ,SQS,SNS,etc
* Extensively using **Jenkins** as Continuous Integration tools to deploying the Spring Boot Microservices to **AWS Cloud** using **Terraform**.
* Experience in creating **Docker** Containers leveraging existing Linux Containers and AMI's in addition to creating Docker Containers from scratch.
* Possessing good interpersonal skills appl **Kubernetes** in coordinating various teams like developing team, QA team and support team as required
* Explore the experimental Project Loom features in **Java 17**, such as virtual threads and structured concurrency, to improve concurrent programming.
* Extensively working on **XML** technologies like **XML**, **XSL, XSD, XSLT, XQuery, XPath** and **DTD** in Using a **Microservice** architecture, with **Spring Boot-**based services interacting through **REST** and **Apache Kafka**.
* Experience in bash and **Python** scripting with focus on DevOps tools, **CI/CD and AWS** Cloud Architecture configuring and deploying the applications into **Tomcat, Nginx, WebSphere, WebLogic** and **Jboss.**
* Enough Knowledge of Data Access Object (**DAO**) case to display a reflection layer between the Business reason level (Business address) and the Persistent stockpiling level (data source).
* Experience in implementing **J2EE** designing patterns such as **MVC,** Singleton, Factory, Adapter, Service Locator Session Facade, DAO, DTO, and **Business Delegating** in the developing of Applications.
* Proficient in **GraphQL**, with demonstrated expertise in building efficient and scalable APIs for modern web applications.
* Hands on enough experience in developing building tools like **Maven** at **SQL**/**NoSQL** databases systems like **Sybase, Oracle, PostgreSQL, MySQL, DB2, Mongo DB** using viewer tools like **SQL Developer, PG Admin, DB Viewer, Toad for performing SQL and PL/SQL programming**.
* Proficient in composing and taking care of **SQL Queries, PL/SQL**, Storing Procedures and Triggers measure of involving in **J2EE** Testing in creating experiments with JUnit for Unit testing, and logging utilizing **Log4j.**
* Experienced working in conditions utilizing **Agile** (**SCRUM**) and **Waterfall** improving philosophies sent **Amazon Web Services (AWS**) for a substantial number of uses using the Amazon cloud arranging.
* Experienced in Developing, testing and deploying of enterprise applications on Windows & UNIX platforms using **IDEs** such as **Eclipse, Rational Application Developer (RAD), NetBeans, and IntelliJ**.

TECHNOLOGIES

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| **Programming Languages** | C, C++, Java 17/11/8, J2EE, Python, SQL server, PL/SQL. |
| **Web Technologies** | HTML5, CSS3, JavaScript, jQuery, AJAX, Angular 12/8, Angular JS, NodeJS, Bootstrap, React JS, JSON. |
| **Databases** | Oracle 9i/10g/11g/12c, SQL Server, MySQL, Mongo DB, PostgreSQL |
| **J2EE Technologies** | Servlets, Struts, EJB 2.0, JSF, JDBC, JSTL, JNDI, JMS, RMI, Java Bean, JTA. |
| **Web Services** | JAX-WS (SOAP), JAX-RS (REST, REST API), WSDL. |
| **Application Frameworks** | Struts 1.x/2.x, Spring 4/5, Spring MVC, Spring Security, Spring Boot, Spring ORM. |
| **ORM Framework** | Hibernate, JPA, DAO, Spring JPA. |
| **XML** | XML, DTD, XSL, XSLT, XHTML, XML Schema and DOM Parsers. |
| **AWS** | AWS Certified Developer – Associate, EC2, RDS, S3, ELB. |
| **Web/Application Servers** | Apache Tomcat 6.0, Kafka, Apache Spark, IBM Web Sphere, Oracle Web Logic, JBoss 4.0. |
| **Version Control** | IBM Clear Case 7.0, 7.1, SVN, CVS, Git. |
| **IDE** | Eclipse, My Eclipse, Edit Plus, NetBeans 7.0, Visual Studios, Intellij |
| **UML tools/ Build tools** | Apache ANT, Maven, Jenkins, Docker, Kubernetes, Azure, CI/CD, JUnit, Jira, SNOW (Service-Now), PCF, Google cloud, Dream viewer, Rational Rose, UML, Selenium. |
| **Design Methodologies** | Agile, Scrum, UML, J2EE Design Patterns. |

PROJECT EXPERIENCE

**Client: JPMorgan Chase, Plano, TX**

**Duration: August 2023 – Till date**

**Role: AWS Cloud developer**

**Project Description:** HLFWS (Home lending fusion webservices) is a world class-servicing platform built from grounds up to provide a scalable robust solution for CCB and MB Technology groups to serve the needs of Home lending users. It provides lots of Home loan self-servicing tools to know more about the existing status and future insights for homeowners having this mortgage managed by Chasse. As part of this project worked on Façade layer to create bridge between data power system which sends legacy style payload in XML format to reach brand new microservices(HLS) in AWS cloud. Particular FAÇADE layer is an interim system until all fusion clients are on-boarded to new system. This FAÇADE layer takes care of validation of existing legacy system requests and transform into new HLS understandable payload to get the response and transform back to Fusion.

**Responsibilities:**

* Developing REST APIs to support new features using spring Boot which can be deployed in AWS
* UAT support and fixing defects by debugging data in **PostgreSQL** using PG Admin, DB Viewer etc
* Developing JUnits test cases using Mockito like unit test frameworks.
* Setting up CI and CD using **Jules** pipelines and **Spinnaker** to deploy java spring Boot microservices in **AWS EKS** clusters and managing different environments for DEV, UAT and Prod.
* Converting XML payload using JAXB bindings and transforming them to JSON payloads to AWS microservices.
* Implemented chaos testing using **Gremlin** for resilience assurance of the system.
* Proficient in working with various technologies like **Java 17**, **Java** **Beans**, **J2EE** (JSP, JSF, Servlets, EJB), **Spring 5**, **Hibernate**, **MicroServices**, **Spring Boot**, **Spring Cloud**, **Angular 12,** Ajax, **JQuery**, JMS, JDBC, SSIS, XML, API Development**,** JAAS, JAX-WS/JAX-RPC, Web Services, LDAP and Design Patterns.
* Configuring **Java 17** objects with backend database tables using **ORM** mapping in **Hibernate** end to end application on **Spring Boot** framework (**Rest Api** Application/**Spring JP** Using Crud repository).
* Consuming messages from multiple topics on AWS-SQS related to ESCROW Payments and Recurring drafts and processing them to create Alerts.
* Involved in implementing Component testing through **JMeter** scripts for Blaze meter testing.
* Creating entities and repositories for curd operations, using JPAs.
* Improving **Terraform** scripts to support data dog and cloud watch alerting for application monitoring also involved in cost optimization using **light switch** and **janitor** implementation at AWS.
* Supporting UAT and prod deployments for multiple microservices in EKS of AWS using spinnaker pipelines.
* Creating Splunk alerts, dashboards and Datadog monitors for alert management
* Creating cloud watch alerts and developing Splunk dashboards for production system monitoring.

Environment: Java 17, J2EE, Spring Boot, Spring Cloud, AWS, JQuery, Hibernate, JMeter, Rest API, MicroServices, Terraform, PostgreSQL, Splunk.

**Client: JPMorgan chase, Plano, TX**

**Duration: Feb 2023 – August 2023**

**Role: Full Stack Java Developer**

**Project Description:** Partner Channel is a payment gateway provider service for multiple clients at chase. At present we are supporting Amazon and PayPal primarily in this project. We take care of payment due management alert notification and alert subscriptions at Partner channel. We have a robust design to onboard any payment partners with in no time to help them with payment solutions for their customers in managing their payments experience for their customers. We use Kafka as our messaging solution to orchestrate entire flow.

**Responsibilities:**

* Developing REST APIs to support new features using spring Boot which can be deployed in AWS
* Creating entities and repositories for curd operations, using JPAs.
* Improving Terraform scripts to support data dog and cloud watch alerting for application monitoring
* Supporting UAT and prod deployments for multiple microservices in EKS of AWS.
* Creating Datadog monitors for alert management
* Developing the **Java** code using **Eclipse** as **IDE** backend services in **Java 17** and **Groovy** strong experience in implementing Service oriented architecture and Web Services using **SOAP**, **Angular 12, RESTFUL** **API’s**.
* Implemented persistence layer using **Hibernate** that uses POJOs to represent DB tuples **business logic** at Server side in **Core Java**, and **Java/J2EE Architecture**.
* Working on data preprocessing, cleaning and publishing data to **Apache** **Kafka** topics writing **Java 17** classes, reusable components and **Java** **Beans** for getting NodeJS Quarkus data from **Oracle 10g** tables.
* Creating cloud watch alerts.
* Publishing and consuming customer payment alerts like due date, payment pending, and payment received in alert feedback service and notification service using AWS-SQS.
* Developing API for using **AWS** Lambda to manage the servers and run the code in the **AWS** creating **Rest**Ful API to enable access to database and data retrieval from SQL.
* Creating multiple E-mail templates and customizing notification service to send E-mails using AWS-SNS service.

Environment: Java 17, J2EE, AWS, Core Java, Angular 12, Spring Boot, Oracle 10g, Restful API’s, Eclipse, Soap, SQL, Terraform, Soap, Java Beans, NodeJS.

**Client: Schneider, Green Bay, WI**

**Duration: Feb 2020 – Feb 8th 2023**

**Role: Full Stack Java Developer**

**Project Description:**Schneider is a premier provider of transportation and logistics services. We embrace our purpose to make energy mean something. A digitized, sustainable energy landscape is what we’re building for people, homes, and businesses offering one of the broadest portfolios in the industry, Schneider’s solutions include Regional and Long-Haul Truckload, Expedited, Dedicated, Bulk, Intermodal, Brokerage, Warehousing, Supply Chain Management and Port Logistics and global private equity firm focused on acquiring and investing in growing businesses. IMS is an integrated private electronic management system designed to manage financial products, Investments, and users, generate reports and send email.

**Responsibilities:**

* Involving in all the phases of **SDLC** including Requirements Collection, Designing& Analysis of the Customer Specifications and Developing of the Application.
* Assisting in Software Developing Life Cycle (**SDLC**) which includes developing, designing, analysis, testing and Integration of various web based and client/server applications in multi-platform environments with **Java/J2EE** technologies
* Expertise in **spring** framework extensively using **Spring 5.0, Spring Batch, Spring AOP, Spring JDBC templates, multi-threading** and in working with **SOAP** &**REST Web Services**
* Preparing the **JUnit** test cases, Integration scenarios to test the implementing co-ordinating with the offshore team in various phases of application.
* Involving in enhancing the application for client's requirements based on the market demand using the pattern, **Angular 8,** JQuery, Bootstrap3, CSS3, **Node JS** and **Web API**
* Implementing Swagger Configuration in **Spring Boot** for auto generating swagger JSON files for **RESTAPI** calls web services (**WSDL**) and effectively working with **SOAP** and **XML**, and **XSLT**
* Developing test code in **Java 11** language using **Eclipse IDE** converting monolithic app to **MicroServices** architecture using **Spring Boot** using app methodology.
* Performing the designing review, code review and test case review using Reflection API to invoke the service class dynamically.
* Developing EJBs, JSPs and **Java 11** Components for the application using Eclipse various helper classes needed following Core **Java** multithreaded programming and Collection classes
* Using **microservice** architecture, with **Spring Boot** based services interacting through a combination of **REST** and **Apache Kafka** endpoints.
* Developing API for using **AWS** Lambda to manage the servers and run the code in the **AWS**creating **REST**ful API to enable access to database and data retrieval from SQL.
* Working with NoSQL Cassandra to store, retrieve, and update and managing all the details for Ethernet provisioning and customer order tracking.
* Strong experience with **Mongo DB** development (reports, schema design, map reduce functions) and migrations from **SQL** relational databases to **NoSQL** databases like **MongoDB.**
* Excellent project experience in **MicroServices**, Multithreading, CICD, Cloud computing, Web - **J2EE** technologies designed UI screens using **JSP**, Struts tags HTML. Used **Java 11** for client-side validation.
* Extensively using **Hibernate** concepts such as inheritance, lazy loading, dirty checking, locking and transactions the search functionality for Internal Application using **Angular 8** and **Node JS**.
* Implementing designing patterns like DAO, singleton, factory to achieve design principles working on Oracle DB and creating Oracle DB PL/SQL Tables, Views, Storing Procedures, Triggers and Functions.
* Responsible for using **AWS** Console and CLI for deploying and operating **AWS** services developing and creating of Web Services using **REST** with JSON response type JMS as messaging service to asynchronously sending messages**.**

**Environment:** Java 11, J2EE, Spring 5.0, Spring Boot, REST, REST API, SOAP, MicroServices, AWS, Spring Data, STS, Hibernate, HTML5, CSS3, Kafka, Mongo DB, Angular 8, Node JS, JQuery, Apache Tomcat, XML, HTML.

**Client: Comcast, Philadelphia, PA**

**Duration: Apr 2018 –Jan2020**

**Role: Java/J2EE developer**

**Project Description:** Comcast is global media and Technology Company with largest video, high-speed internet, and phone providers to residential customers under the Xfinity brand, and also provides these services to businesses. It also provides wireless and security an automation services to residential customers under the Xfinity brand. NBC Universal is global and operates news, entertainment and sports cable networks, the NBC and Tele undo broadcast networks, television production operations, television station groups, Universal Pictures, and Universal Parks and Resorts media and entertainment companies, connecting customers to a broad range of video content through its pay television services. It also provides communications services.

**Responsibilities:**

* Designed use cases, sequence and class diagrams, activities, states, objects and components. Used **UML** (MS Visio) for software design on **AGILE** methodology.
* Written **JavaScript, HTML, DHTML, CSS, Servlets,** and **JSP** for designing **GUI** of the application the application using **Spring Boot** Architecture with Hibernate as **ORM** framework.
* Designed Frontend with in object-oriented **JavaScript** Framework like **React JS** Securing the **REST** services using Spring Security, LDAP **Basic Auth** framework
* Involved in multi-tiered **J2EE** design utilizing **Spring 4.0** Inversion of Control (IOC) and Hibernate upgraded **Apache Tomcat 8.0** in Production servers to latest version, configured and tested successfully
* Design and develop **XML** processing components for dynamic menus on the application developed **SQL** queries for retrieving data used to generate the reports.
* Develop various screens for the front end using **React JS** and used various predefined components from **NPM (Node Package Manager)** and **redux libraries**
* Designed and Developed End to End customer self service module using annotation-based **Spring Boot, Hibernate, Java** Beans and **JQuery.**
* Used **Java 8 features** like Streams and Lambda Exp for API Development and performed unit testing using frameworks with **Node JS, React JS framework** including authoring complex directives, services, controllers and filters.
* Secured the **RESTAPI** services using Appeng Aluminum framework where security is provided by extending the **Spring Boot** framework with additional capabilities that are specific to Apple Inc.
* Developed UI layer for the application using HTML5, CSS3, React JS and Bootstrap Handled Production defects related to ansible automation in **Docker** pipeline and troubleshoot system admin issues
* Security vulnerability fixes on server by setting up Big-Fix, Carbon-Black, Flex-era on cloud VM, Configuring firewall settings in **Google cloud** platform (**GCP**)
* Implemented client-side Interface using **React JS** designed and developed the REST based **Microservices** using the **Spring Boot**.
* Used **Java 8 features** like Streams and Lambda Exp for API Development and performed unit testing using frameworks with **Node JS framework** including authoring complex directives, services, controllers and filters.
* Involved in Servlets, Java Beans programming on the server side for the communication between clients and server Creating multiple **facelets** in the page **GIT** for the version control management.
* Developed **SOAP** based Webservices using **Apache CXF** and also develop **Logger** classes using **Log4j** for efficient logging mechanism.
* Deployed application on **JBoss** server and used **Maven** as a build tool **JUnit** test cases for all use cases and executed them with Quality Assurance team in tracking and fixing bugs played a key role in for developing the application.

**Environment:** Java 8, J2EE, Hibernate, JPA, Spring 4.0, Spring Boot, Kubernetes, React JS, SOAP, REST, REST API, MicroServices, Google cloud Platform (GCP), Docker, JSF, jQuery, Oracle 10g, HTML, CSS, XML.

**Client: Change Healthcare, Alpharetta, GA**

**Duration: Sep2016 – Mar 2018**

**Role: Java Developer**

**Project Description:** Change Healthcare is a leading independent healthcare technology company, focused on insights, innovation and accelerating the transformation of the U.S. healthcare system through the power of the Change Healthcare Platform helps to maximize savings by identifying and recovering lost dollars due to improper payments. Quitclaim identifies inaccurate repricing, improper coding, and misapplied reimbursements, and recovering over payments. Every claim that is paid by the payer will be retrospectively audited for possibility of identifying savings under the perspective of incorrect.

**Responsibilities:**

* Used **Spring** for bean instantiation, annotations, controllers, request mapping to handle the **Webservice** request and response
* Developed **REST** Web services to make web service calls simple and easy for the client to access it with the help of standard HTTP URIs.
* Used **Spring MVC** which is radically faster in building cloud **MicroServices** and develop **spring**-based application with very less configuration.
* Developed Intranet Web Application using **Java 7** architecture, using JSP to design the user interfaces and **Hibernate** for database connectivity.
* Developed DAOs using **JPA**, **hibernate** persistence API for the database operations to interact with **Oracle Database** used **Angular JS** as the development framework to build a single-page application and reusable **Angular JS** applications**.**
* Responsible for creating efficient design and developing User Interaction screens using **HTML**, **CSS**, **JavaScript**, **JQuery**, **AJAX** and **JSON.**
* Developed Web Services using **SOAP,** SOA, WSDL **Spring MVC** and developed DTDs, XSD schemas for XML (parsing, processing, and design) to communicate with Active Directory application using **Rest API.**
* Extensive use for developing test cases and performed unit and integration, tested by using **Junit** involved in developing Webservices operations in **Service Oriented Architecture (SOA)**.
* Followed **agile methodology** during complete **SDLC** process. Participated **Agile/Scrum** development and deployment teams
* Used **Spring Framework 4.1** for the application development. Involved in **Java 7** front end development using **Struts, JSP's, JSF and JSTL**
* Extracted data in UI for different clients using **JSON**. Integrated with third party **Sale point API** to make **rest**ful Webservices call used **Maven** for the project management like build, install deployed application on **Apache Tomcat** server.
* Have Experience in using **GitHub** repository to run the **Jenkins** job for Continues Integration while developing the applications and posting them in **GIT**.
* Developed **Groovy scripts** to test Report application output used **Selenium** for UI automation and used **log4j** for logging errors, info, exceptions.

**Environment:** Java 7, J2EE, Struts1.2, MicroServices, JSF2.0, Web Services (SOAP, REST), REST API, Spring MVC, Hibernate, Servlets, JSP, JavaScript, XML, HTML5, CSS3, SVN, JUnit, Log4J, Angular JS, Maven, JIRA.

**Client: Technosoft, India**

**Duration: Nov 2013–Dec 2015**

**Role: Software Developer**

Project Description: Technosoft provider of Office Facilities to Corporate. All non-mission critical services are offered to multinationals in a complete business environment, thus enabling them to focus on their prime business area. Paharpur Business Centre is the first private company to be awarded Software Technology Incubator Park status by the Government of India, and it now also meets the specified standards for Indoor Air Quality.

**Responsibilities:**

* Involved in all phases of the Software development life cycle (**SDLC**) using Agile Methodology in writing **Spring MVC** Configuration XML file that contains declarations and another dependent object declaration.
* Developed user interface using **JSP** Tag libraries, third party libraries and **Java Script** to simplify the complexities of the application
* Inserted Dependency Injection between components using **Spring (IOC)** concept implemented Asynchronous messaging between components using JMS.
* Used **Spring Security** to provide authentication, authorization and access-control features for this application wrote Stored Procedures and complicated queries for IBM DB2
* Implemented SOA architecture with Web Services using **SOAP**, WSDL, UDDI and XML using Apache CXF framework tool/Apache Commons worked on parsing the XML files using DOM/SAX parsers
* Involved in coding used **Struts**, **Spring** and **Hibernate**, **REST**/**SOAP** **webservices**, **JSF frame** works in the development of the User Interfaces using HTML, JSP, JS, CSS and AJAX.
* Involved in creating various Data Access Objects (DAO) for addition, modification and deletion of records using various specification files created **JAX-RS REST API** for **GET**, **POST**, **PUT** and **DELETE** requests
* Used MQ series of messaging and queuing purpose in the application created tables, triggers, stored procedures, SQL queries, joins, integrity constraints and views for multiple databases, Oracle using Toad tool.
* Responsible for designing, coding and developed the application in **J2EE** using XML MVC involved in Unit Testing of various modules by generating the Test Cases.
* Involved in Bug fixing of various modules that were raised by the testing teams in the application during the Integration testing phase.
* Implemented **PL/SQL** procedures and views in Oracle Database using Altova Database spy performed configurations and day to day activities using WebLogic
* Implemented **Log4J** for Logging Errors, debugging and tracking using logger's components performed deployment of applications on IBM Web Sphere Application Server.

**Environment:** Java, J2EE, Spring, Spring MVC, REST, REST API, Hibernate, SQL, SOAP, JMS, JavaScript, HTML, XHTML, CSS, Bootstrap, Log4j, jQuery, WebLogic Application Server, JIRA, Maven, GIT, Eclipse.

**Client: Sitel India Private Limited, India**

Duration: May 2009 – Oct 2013

**Role: Business Associate**

**Responsibilities:**

* Manage sales cycle from prospect to closing independently, discuss progress with management and develop solutions to improve closing ratio.
* Manage day-to-day operational duties (manage and track sales lead flow, manage and maintain CRM database, report weekly activities and accomplishments, etc.).
* Work closely with Sales and Marketing teams to build and manage thoughtful, high performing materials for the sales teams.
* Assist the Development team in developing and maintaining relationships with the Foundation’s corporate partners, including.
* Provide assistance on business development opportunities with new and/or existing clients work closely with the Director of Marketing and Sales Managers to assist with inbound marketing.
* Work closely with internal stakeholders in sales and business development to develop a strategy for government relations, public and diplomatic sales.
* Handled the tasks of serving as the first point of contact to prospective partners and customers provided detail information of the product and services of the organization.
* Performed the tasks of calling prospective customers and developing business relationships with meeting industry associations.
* Handled responsibilities of interacting with senior sales team to achieve new-booked business and industry partnership quotas
* Processed sales queries and updated the same to the business executives evaluated, interpreted, and analyzed data and business processes

EDUCATION

* Bachelors in Computer Science from Sri Sarathi Institute Engineering of Technology – India 2009