**Kiran Kumar Karakula**

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 **PROFESSIONAL SUMMARY**

* Having over **8 years** of experience in all the technical phases of **Software Development Life Cycle** (**SDLC**) including Requirement Analysis, Design, Implementation and Testing in both Web based and Enterprise applications with emphasis on **Object Oriented, Java/J2EE** and **Client Server technologies.**
* Experience in developing the applicationwith **Agile Methodology**, **Waterfall Methodology** and**Test-Driven Development.**
* Experience in Front-End UI technologies like **HTML5, CSS3, React, JQuery, JSON, Ajax, AngularJS, NodeJS, Bootstrap, Tag Libraries, JSTL.**
* Good working knowledge with **Java1.8** features like **stream, Lambda expressions** and **functional interfaces** etc.
* Having experience with Cloud Computing environment like **Pivotal Cloud Foundry (PCF), Amazon Web Services (AWS), Docker Containers.**
* Handled operations and maintenance support for **AWS** cloud resources which includes launching, maintaining and troubleshooting **EC2 instances**, **S3** buckets, **Auto Scaling**, **Dynamo DB, AWS IAM**, Elastic Load Balancers (**ELB**) and Relational Database Services (**RDS**).
* Proficient in developing **J2EE** enterpriseapplications in **Service Oriented Architecture** and **MicroService Architecture.**
* Hands on Experience in developing web applications by using Spring framework modules like **Spring IOC, Spring AOP, Spring MVC, Spring Security, Spring Boot, Spring Batch** and **Spring Data.**
* Hands on Experience in the implementation of **Pivotal Cloud Foundry** (PCF), **Platform as a Service** (Paas) services such as Pivotal Application Service, Pivotal Container Service and Pivotal Functional Service.
* Expertise in developing data models using **Hibernate** Object relational mapping (**ORM**) frame work and used **Hibernate Annotations** to reduce time at the configuration level
* Worked in **Amazon Web Services** AWS - S3, Glacier, EC2, VPC, SNS, SQS.
* Expert in **Core** Java with strong understanding of **Garbage Collector, Collections, Multithreading, Event handling, Exception handling** and **Generics.**
* Expertise in **J2EE** Technology- **Servlets, Struts,Spring, JDBC, JTA, JPA, Hibernate** and **JMS.**
* Experience with distinctive **design patterns** like **Singleton, Factory, Prototype, Business Delegate, Session Facade, Service locator, Visitor, Observer, Decorator, Front Controller, DAO** and **MVC.**
* Worked with design and development of robust and highly scalable Web Service platforms and **API’s** based on **REST** and **SOAP** for enterprise applications using **AXIS,WSDL, UDDI, XML, JAX-WS, JAX-RS, JAXB, JAX-RPC** technologiesand **React** **Jersey** frameworks.
* Expertise in XML technologies such as **XSL, XSLT, XML schemas, XPath, XForms, XSL-FO** and **parsers**
* **like SAX, DOM**
* Expertise in back-end/server side java technologies such as: **Web services**, **Java persistence API** (JPA), Java Messaging Service (**JMS**), Java Database Connectivity (**JDBC**) and Java Naming and Directory Interface (**JNDI**).
* Experienced in building **WebServices** for Service Oriented Architecture (**SOA**).
* Good Understanding in **databases** such as **Oracle, MySQL, SQL Server, NoSQL, Mongo DB and IBM DB2** databases to manage tables, views, indexes, sequences, stored procedures, functions, triggers and packages
* Experience in **JMS** over messaging to exchange the information in more reliable and asynchronouslyfor enterprise applications using **Active MQ** and **Rabbit MQ.**
* Proficient with build automation tools like **Gradle, Maven** and **Ant** for builds and deployments to different environments.
* Experience on different **IDEs** such as**Eclipse, RAD, Spring Tool Suite, IntelliJ** and deployment using Application Servers like **Apache Tomcat, BEA WebLogic, Web Sphere, Glassfish, Camel** and **JBOSS**
* Experience with **JUnit, Mockito, Log4j** in developing test cases and determining application functionality.
* Experience on **UNIX/LINUX** Shell Scripting and Deployment of Applications in Server.
* Decent Experience in using code repository tools **GIT**, **Tortoise SVN, React** and **Visual Source Safe.**

 **TECHNICAL SKILLS**

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| --- | --- |
| **Programming Languages** | C, C++, Java 8, J2EE, and PL/SQL. |
| **Tools and Framework** | Struts, Spring, Hibernate, Spring MVC, Spring Web Flow, Spring IOC, Spring AOP, Spring Security, Struts, JSF, JUnit, SOAP UI, JReport. |
| **J2SE/J2EE Technologies** | Java, J2EE, RMI, Sockets, JDBC, Servlets, JSP, JMS, Java Beans, JSTL, JSF, Jakarta Struts, EJB, Spring, Hibernate, JTA, JNDI, JPA JMS, Web Services (JAX-RPC, JAX-WS, SOAP, REST, WSDL, UDDI and RESTFUL), Groovy/Grails. |
| **Web Technologies** | HTML5, CSS3, JavaScript, JQuery, Bootstrap, Angular 2/4/6/8, React, JSF, AJAX, NodeJS, JSON. |
| **XML Technologies** | XML, XSL, DOM, SAX, DTD, XQuery, XSD and XSLT. |
| **Cloud Technologies** | AWS EC2, S3, Dynamo DB, ELB |
| **Databases**  | Oracle, SQL-Server, MySQL server, MS SQL, IBM DB2, MongoDB, NoSQL. |
| **Web/Application Servers** | Apache Tomcat, IBM WebSphere, Glassfish, Web logic Application server, JBOSS. |
| **Build Tools** | ANT, Maven, Gradle, Vagrant, Docker and Jenkins |
| **IDE / Tools** | Eclipse, IntelliJ, Spring Tool Suite(STS), RAD |
| **Testing Tools/ Others** | JUnit, Mockito, Soap UI, Log4j and JIRA |
| **Version Control** | Tortoise SVN, CVS and GIT |
| **Platforms** | Windows, Mac, Linux and Unix. |  |
| **Methodologies** | Agile, Waterfall, Test Driven Development |  |

**Education Qualification**

* Bachelors in Information Technology From JNTU India
* Masters in Computers and Information Science From Southern Arkansas University AR

 **PROFESSIONAL EXPERIENCE**

**Client: Prime Therapeutics May 2020 – Till Present**

**Location: Eagan, MN**

**Role: Full Stack/Java Developer**

**Responsibilities:**

* Involved in analysis, specification, design, and implementation and testing phases of Software Development Life Cycle (**SDLC**) and used **agile** methodology (**SCRUM**) for developing application.
* Application is implemented using **agile** methodology where there is a daily **SCRUM** meeting to understand the status and resolve any issues.
* Used Microservices architecture with based services interacting through a combination of **REST** and **Spring Boot.**
* Designed, developed a custom, single-page, responsive web application on front end using **AngularJS**.
* Working as an application developer experienced with controllers, views and models in **NodeJS**.
* Developed forms for user event handling and validations using **JavaScript's** and **AJAX**.
* Upgraded existing UI with **HTML5, React, CSS3, Responsive Web Design (RWD), JQuery** and **Bootstrap**.
* Designed and developed the End Points (Controllers), **Business Layer, DAO Layer** using **Hibernate/JDBC** template, using **Spring IOC (Dependency Injection)**.
* Involved in multi-tiered **J2EE** design utilizing **Spring Inversion of Control** (IOC) and **React,** **Hibernate**.
* Build the application based on new features of Java **JDK 1.8** at service layer level.
* Worked on **Java 8** Streams, Functional Interfaces and on **lambda** expressions.
* Used **Spring Framework AOP** Module to implement logging in the application to know the application status.
* Implemented the application using **Spring IOC, Spring MVC Framework, Spring Batch, Spring Boot** and handled the security using **Spring Security**
* Responsible for maintaining and expanding **AWS (Cloud Services)** infrastructure using **AWS** (SNS, SQS).
* Configured **AWS Cloud Watch** to monitor AWS resources as well as application and troubleshoot **AWS EC2** status check including System Status check and Instance Status check alerts.
* Implemented the various services using **MicroServices** architecture in which the services works independently
* Implemented Batch jobs to deal with large amount of chunks using **Spring Batch** Framework to execute the similar jobs simultaneously.
* Used **Hibernate**, object /relational mapping **(ORM)** solution, technique of mapping data representation from **MVC** model to Oracle Relational data model with an **SQL**-based schema.
* Designed and developed a **JDBC** driver that intercepts a create view **DDL** parses it, converts it to a relational model, and stores in the database.
* Deployed the Application into **Dockers** container and made easily accessible at runtime using Cloud Foundry and other cloud services like **AWS, Netflix Eureka**.
* **RESTful** web services using **Jersey** for **JAX-RS** implementation.
* Developed user interface using **JSP, JSP Tag libraries, third party libraries** and **Java Script** to simplify the complexities of the application
* Performed **CRUD** operations like Update, Insert and Delete data in **MongoDB.**
* Worked on **MongoDB** database concepts such as locking, transactions, indexes, Sharding, replication, schema design, the application React using the **Jenkins**.etc.
* Implemented Restful Web services to connect to SOAP and Http end points using **Apache Camel.**
* Proficiency in adoption of architecture paradigms such as **SOA**, **Web services**, **Middleware technologies.**
* Worked with core java concepts like **Collections Framework**, **Multithreading** and **Memory** management.
* Deploying fixes and updates using **Web Sphere** application server.
* Involved in installing and configuring **Maven** for application builds and deployment.
* Worked on **Log4J** to validate functionalities and **JUnit** for unit testing.
* Developed the application using **Eclipse** as **IDE**

**Environment:** Java1.8, J2EE, HTML5, CSS3, JavaScript, Bootstrap, Agile (SCRUM), AngularJS, NodeJS, Ajax, Hibernate, React, Spring IOC, Spring MVC, Spring Batch, Spring Boot, Spring Security, Servlet, MongoDB, JUnit, Maven, Web Services, Restful, Docker, GITHub, Web Sphere, Log4J, XML, SOA, AWS, MicroServices**,** JIRA, Jenkins and Eclipse.

**Client: Zeggys March 2019 – May 2020**

**Location: Bellevue, WA**

**Role: Sr. Full Stack Java Developer**

**Responsibilities:**

* Worked on High level and low level system design, planning, estimation and implementation
* Developed presentation layer using **JSP, HTML5, CSS3** and client validation using **JavaScript.**
* Developed Single page application and structured the **JavaScript** code using **AngularJS.**
* Design and develop template based User Interface using **Bootstrap** and**Angular JS.**
* Handled all the client side validations, slide show, hide and show controls, dropdown menus and tab navigation using **JQuery.**
* Worked on **Java 8** features such as **Lambda** Expressions for making anonymous inline function calls by using Functional Interfaces which makes code readable and concise.
* Excellent in deploying the applications in **AWS** as **EC2** instances and create snapshots for the data that must be stored in **AWS S3**.
* Utilized **Amazon** Web **Services** (**AWS**) **EC2** to deploy **Docker** containers.
* Create and configured the continuous delivery pipelines for deploying **MicroServices** and **Lambda functions** using **JenkinsCI** server.
* Worked on development and implementation of the **MVC** Architectural pattern using **Spring Framework**.
* Developed the React application with various **Spring Framework** modules like **Spring IOC, Spring AOP, SpringBoot, Spring Security**, **Spring Batch.**
* Used **Spring MVC** framework at the Web tier level to isolate each layer of the application so that complexity of integration will be reduced and maintenance will be very easy.
* Used **Spring AOP** for solving crosscutting concerns like keeping customer log data and transactions details etc.
* Implemented Batch jobs to deal with large number of chunks using **Spring Batch Framework** to execute the similar jobs simultaneously.
* Designed and integrated the full-scale **Hibernate** persistence solution with the application architecture.
* Involved in design and development of the **Hibernate Domain Model** for the service.
* Involved in using **JPA** (Java Persistence API) frameworks and APIs as **JDO** and **Hibernate.**
* Enterprises Integrated Pattern Implemented with **Apache Camel(ESB).**
* Developed a**RESTful** based service for data retrieval to make it independent of the current application.
* Involved on development of **RESTFul** web services using **JAX-RS** in a **Spring** based project.
* Proficient in Application Development/Maintenance using Legacy**RPI** languages.
* Worked on **XML** and **JSON** for transferring and retrieving data between different applications.
* Wrote services to store and retrieve user data from **MongoDB** for the application on devices.
* **Websphere**is used as an Application Server to Deploy the Application.
* Experience in using **JUnit** and build tools such as **MAVEN.**
* Collaborated with testers and developers and prepared test plans for producing high quality software applications
* Worked on **Log4j** for logging errors, messages and performance logs

**Environment:**Java 8, J2EE, HTML5, CSS3, JQuery, Ajax. Bootstrap, JavaScript, AngularJS, NodeJS, Hibernate, Spring MVC, Spring IOC, Spring boot, spring security, OAuth , XML, GIT, JSP, JUnit, Maven, IBM WebSphere, Apache AXIS, JAX-WS, Restful, Amazon Web Services (AWS), MicroServices, Log4J, Oracle, Mongo DB, WSD, JIRA and Spring Tool Suite.

**Client: Brown Brothers Harriman (BBH) April 2018 – Feb 2019**

**Location: New York City, NY**

**Role: Full Stack Java Developer**

**Responsibilities:**

* Involved in analysis, design and testing phase of the application
* Used **Core Java, JDBC, JSP and Servlets, React, Web Services, SOAP and WSDL** for developing the web application
* Implemented GUI pages using **JSP, HTML, CSS, JavaScript** and **JDBC**
* Implemented Web services using React apache API and tested them using SOAP UI. Integrated the SOAP Web services to RESTful Web Services.
* Enhanced several **Microservices** with the ElasticSearch **API** to improve the performance of the application.
* Used Core **Spring** for dependency injection of various component beans.
* Migrated the application fromcloud Foundryto **AWS** using the EC2.
* Implemented spring data with Angular 2 JPA
* Developed Controller for request, response paradigm by spring Controllers using spring-MVC.
* Used Collection framework for data structures.
* Used **Hibernate** for object mapping.
* Deployed application on **Web logic server**
* Used **Spring AOP framework** for account management.
* Wrote complex **SQL queries** for indexing and optimization of the database.
* Used **SOAPUI** for testing **SOAP** based web services.
* Used **ANT** to build application.
* Used **Agile Software development** to co-ordinate with other developers in the team.
* Designed and developed **base classes, framework classes and framework re-usable components**.

**Environment:** Eclipse JDK 1.6, AWS, Eclipse IDE,JSP, React, HTML, CSS, JavaScript, JDBC Spring, Hibernate, SOAP Web Services, SOAPUI, Oracle, Web logic.

**Client: Infinity Insurance Jan 2017 – April 2018**

**Location: Oklahoma City, OK**

**Role: Java Developer**

**Description:**UnitedHealth Group Inc. is an American [managed health care](https://en.wikipedia.org/wiki/Managed_health_care) companyUnitedHealth Group offers products and services through two operating businesses, UnitedHealthcare and Optum, both subsidiaries of UnitedHealth Group. Optum is a healthcare service arm of UnitedHealth Group and the largest healthcare

**Responsibilities:**

* Involved in all phases of the Software development life cycle (SDLC) using Agile Methodology.
* Developed User Interface using **JSP, JSTL, HTML, CSS, Java Script, JQuery** and **Angular JS.**
* Developed client side application with **Angular JS** in a clean **Model View Controller (MVC) Architecture.**
* Involved in component development using **J2EE** principles and used design patterns such as **Singleton, Factory** and **Data Access Object (DAO)** in the React implementation of the application.
* Used **Spring MVC** and **Dependency Injection** for handling presentation and business logic.
* Integrated **Spring DAO** for data access using Hibernate.
* Designed and developed asynchronous **RESTful** **Microservices** using **Spring Boot** and MEAN Stack
* Implemented persistence framework using **Hibernate** and Handled **Transaction Management** using the provided data source.
* Used **AWS S3** with versioning as a cost-effective and durable storage layer and Cloudfront CDN for better File Storage and Transfer
* Used **Spring Security** for **Authentication** and **Authorization** of the application.
* Extensively used **JSON** to parse the data from server side to satisfy the business requirement.
* Responsible for designing **Hibernate mapping files** based on business logic and Object relationships.
* Integrated **Spring and Hibernate** together and worked on developing backend components and services using Hibernate and spring.
* Established Database Connectivity using **JDBC, Hibernate O/R mapping with Spring ORM** for **Oracle**.
* Worked on **Hibernate** for mapping the java objects to relational database and **SQL** queries to fetch the data, insert and update the data from the database.
* Used **Hibernate** in **Data Access Layer** to access and update information in the database.
* Extensively used **HQL** and **SQL** for querying databases.
* Consumed **Web Services** to interact with other external interfaces in order to exchange the data in different forms by using **Restful** service.
* Implemented **SOA** architecture with **Web Services** using **SOAP, WSDL, UDDI** and **XML** using **Apache CXFframework** and worked on parsing the **XML** files using **DOM/SAX** parsers.
* Created **tables, triggers, PL/SQL Stored Procedures, SQL queries, Joins, i2ntegrityconstraints** and **views** for **IBM DB2.**
* Used **Multithreading** in programming to improve overall performance using **Singleton** design pattern in Hibernate Utility class.
* Implemented **Restful** and **SOAP** based Web Services and used **Soap UI** for testing.
* Used **Spring JMS** module for lookup for the queues and MDBs for the listeners.
* Involved in **Unit Testing** of various modules by generating the **Test Cases.**
* Performed deployment of applications on **Web Logic Server.**
* Written **LINUX** shell scripts to identify user login information.
* Involved in day to day handling of **JIRA** issues (production issues at time) that involved data inconsistencies that required to be solved in very less time.
* Worked with **Eclipse IDE** and used **Gradle** build tool to achieve more functionality for build process.
* Used **Jenkins** as build management tool for continuous integration process and used **Git** as Version Control tool.
* Involved in Bug fixing of various modules that were raised by the testing teams in the application during the **Integration testing phase.**
* Participated in **Code Reviews** of other **modules, documents, test cases**.

**Environment:** Java, J2EE, HTML, CSS, JavaScript, JQuery, JSP, JSTL, AWS, Spring, Hibernate, XML, XSD, Web Services, Restful, SOAP,WSDL, Log4j, JUnit, DB2, Web Logic, Jenkins, Gradle, GIT, Eclipse, JIRA, Agile Methodology, Windows, Linux, Rational Rose.

**Client: Yash Technologies July 2013 – Dec 2015**

**Location : India**

**Role: Java/ J2EE Developer**

**Description**: Yash Technologies pvt, ltd. provides essential operational services, IT and technical support to help its clients to function effectively and improve productivity.

**Responsibilities**:

* Involved in Requirement Analysis, Design, Development and Testing of the risk workflow system.
* Involved in the implementation of design using vital phases of the Software development life cycle **(SDLC**) that includes **Development, Testing, Implementation** and **Maintenance** Support in **WATER FALL** methodology.
* Created user-friendly GUI interface and Web pages using **Struts, JSP, HTML, CSS, AJAX, JQuery and JavaScript.**
* Implemented **MicroServices** using **Pivotal Cloud Foundry** (PCF) platform build upon **Spring Boot** Services
* Responsible for designing, coding and developed the application in **J2EE** using **Struts MVC.**
* Implemented **Struts framework** (Action & Controller classes) for dispatching request to appropriate classes.
* Used simple **Struts Validation** for validation of user input as per the business logic and initial data loading.
* Achieved synchronization of multiple threads through **Multithreading** and **Exception Handling**.
* Extensively used **JSON** to parse the data from server side to satisfy the business requirement.
* Developed **Struts Action Forms**, **Action classes** and performed action mapping using **Struts**.
* Developed batch job using **EJB** scheduling and leveraged container managed transactions for highly transactions.
* Used various **Core Java** concepts such as **Multi-Threading, Exception Handling, Collection APIs,Garbage collections** for dynamic memory allocation to implement various features and enhancements.
* Consumed Web Services to interact with other external interfaces in order to exchange the data in different forms by using **Restful service**.
* Established Database Connectivity using **JDBC** for **Oracle**.
* Used **Log4J** for application logging and notification tracing mechanisms.
* Developed the **ANT scripts** for preparing **WAR files** used to deploy **J2EE** components.
* Analysis and Bug fixing of the production problems and defects along with enhancements.
* Implemented **JUNIT** test cases for unit testing and Suites for end to end testing.
* Used **JIRA** for tracking the Project Stories and bug fixing.
* Used **SVN** to check-in and check-out and co-ordinate among team members for Version Controlling.
* Developed web application using **JSP, Servlets, Java beans** that uses **MVC** design pattern.
* Created user-friendly GUI interface and Web pages using **HTML, CSS** and **JSP.**
* Used **Eclipse** as IDE tool for creating **Servlets, JSP,** and **XML.**
* Wrote **SQL** for **JDBC** prepared statements to retrieve the data from database.
* Monitored the logs using **Log4J** and fixed the problem.
* The Application was deployed on **Apache Tomcat Server**.
* Involved in build and deploying the application using **ANT.**

**Environment:** Java, HTML, CSS, AJAX, JQuery, JavaScript, JSON, XML, Struts, JDBC, IBATIS, Web Services, SOAP UI, Restful, HQL, SQL, JBOSS, Oracle, ANT, Eclipse IDE, JIRA, Tortoise SVN, and UNIX.

**Client: InfiniX May 2012 - July 2013**

**Location : India**

**Role: Jr. Java Developer**

**Responsibilities:**

* Involved in design, development, testing, deployment and maintenance of application
* Involved in the development of patient module application as per the client requirement using Core Java, JSP, Struts and JDBC.
* Used Struts Framework for implementing the MVC Architecture.
* Responsible in implementation of the presentation layer for the application using HTML5, CSS3, JavaScript.
* Implemented various Validation Controls for form validation and implemented custom validation controls with JavaScript validation controls.
* Coded Action Classes, Action Form for the web tier for the Customer Service representative to send a fax request with Struts validation framework.
* Designed and developed the controller and view components using JSPs and Servlets.
* Involved in extensive use of HTML, CSS, JavaScript and other UI resources to alter the website look and feel with the minimum amount of footprint on the site.
* Involved in Unit integration, bug fixing, acceptance testing with test cases, Code reviewing.
* Actively involved in the Software Development Life Cycle.
* Involved in communicating, coordinating meetings with the client and taking the requirements.
* Involved in fixing the bugs posted in JIRA tool.
* Proactively participated in the developer meetings conducted by the client and explained the project flow and database mapping.

**Environment** and Technology: JAVA, Struts2, Spring Framework, Apache Tomcat, AJAX.